

Wireless power supply & Signal transmission

Remote System

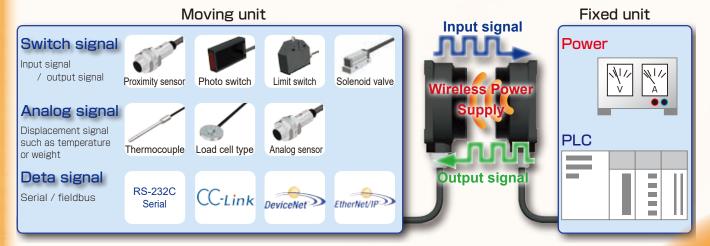


Wireless Power Supply

&

Signal Transmission Remote System

B & PLUS Remote System is an original connection system which supplies power and transmits signals inductively between a remote and a local position.



In stead of the cable wiring, it performs the 12V/24V power supply and various signal transmission simultaneously.

What's Remote?

B & PLUS Remote System solves a various problems of wiring and greatly contributes to automation or efficiency.

Feature!

Wiring by connectors or cables

Remote System olution!

In the case of cables, the limit of motion or damage or cable breakage by degradation of the cable itself. In the case of connector, a need to attach and detach, bareakage of pin or concerns of water or the foreign substance at the time of attaching of detaching. It takes maintainance cost caused by the problems mentioned above.

Removable steps are unneccessary to Remote System. When a set of Remote System face each other, automatically power is supplied and signals is transmitted. Owing to protective structure IP67, there is no worries on water, oil or dust.

At the rotating part

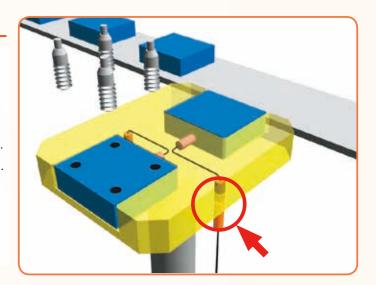
Before

imes Cable breakage by cable tangling.

After

- O No cable tangling solves cable breakage trouble.
- O No limitation of the cable, no inversion of the jig.

In addition! Transmitter and detector are integrated. So Installation is simple.



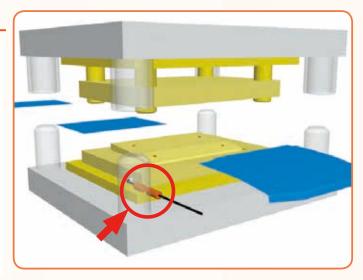
At the removable part

Before

X Time loss caused by attaching or detaching of connector when exchanging die.

After

 Speed of operation will be greatly improved because it is OK just to set a die.



At the moving part

Before

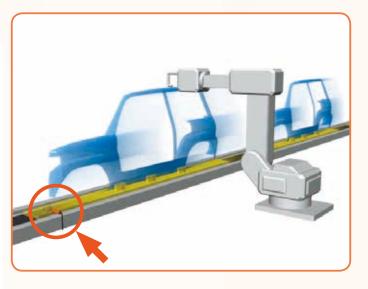
Application

- X A line often stops because of the contact defectiveness caused by the foreign substance.
- × The maintenance of the connector is frequent.

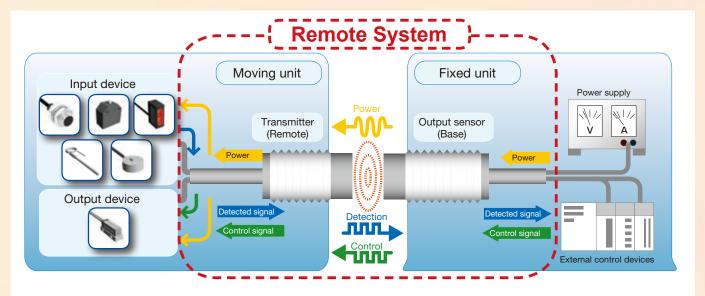
After

- O Abort of line caused by poor contact will be solved.
- No pin maintenance is necessary because it becomes noncontact.

In addition! For Anti-weld slag type, weld slag is avoided to adhere.



Function of Remote System



Remote System is an original connection system which supplies power and transmits signals simultaneously in wire-less.Remote System is composed of the Transmitter (Remote) attached to moving unit and the Output Sensor (Base) attached to fixed unit.

Principle of Remote System

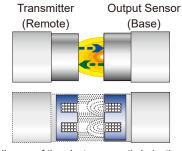
Remote System is an unique system that the power supply and signal transmission are performed in the electromagnetic induction principle. When the Transmitter comes into the transmittable field of the Output Sensor, power is supplied as well as signal is transmitted to the Transmitter by inductive coupling.

Wireless Power Supply System by electromagnetic inductive

Power which inputted to the Output sensor of Remote System change to AC magnetic field by internal circuit and coil.

Power that are changed magnetic field transmit to the coil of Transmitter.

AC magnetic field which sent to Transmitter are changed to DC power. It built Wireless Power Supply System by inductive coupling.



(Image of the electromagnetic induction)

Comparison with other methods

The electromagnetic induction method of the Remote system is superior to other methods in the environmental nature or feeding efficiencyresistance, and it can transmit stable wireless feeding and signal in the various environment.

	Transmitted	Size	Frequency		Condition			Supply	Commu-
	power	0126	band	Partition	Noise	Dirt	Distance	efficiency	nication
Remote System (Electromagnetic induction)	0.06 ~ 210W	ϕ 12 \sim	Dozens KHz ~	0		0	\triangle	0	0
Resonance method	Several kilowatts	\square 50cm \sim	LF ~ HF band	0	\triangle	0	0	\triangle	\triangle
Microwave wireless	1KW	\square 10cm \sim	Microwave band	0	0	0	0	×	\triangle

Features

Simultaneous operation of feeding and signal transmission



Wireless feeding and signal transmission are simultaneously operated by a set of Remote system.

Non-metallic Partition is no problem



Even if there is glass or nonmetal partition suchasresin ,wireless feeding and signal transmission is possible.

Product overview

Function & Features

Application

Product

Description

Getting wet is no problem



Protection class of our Remote System is IP67, and can be used under heavy duty factory automation conditions. (with minor exception)

Direct input/output with controller



Detected signal is parallel output from output sensor and direct input is OK to I/O unit. Direct connection to each slave and master unit is available in Data communication type

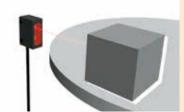
Solution

Since B & Plus Remote system realize wireless feeding and signal transmisson, it can solve the various problems caused by the wiring of a cable / connector.



There are no worries for cable breakage as there is no cable tangled.

False detection



Solution of miss-detecting owing to the sensor installed outside.

Substitute of slip ring



Possible to communicate even if there are water, oil, dirt or mine dust

Connector trouble



Solution of poor contact with broken or pin contact degradation

Cost saving



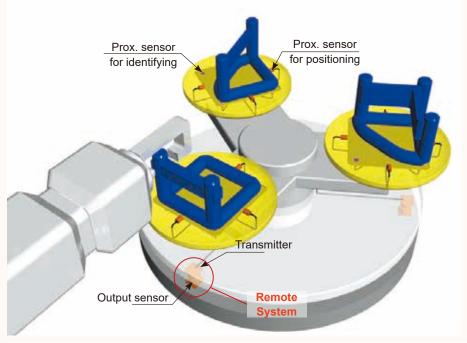
reduce the maintainance cost occurred in the case of troubles

Working hour saving



Reduce attaching or detaching time to change units

Identifying and verifying workpiece on a turntable



Previous problems

- Cable breakage from stress.
- Time loss from home positioning due to physical limitation of the cable.

Solution!



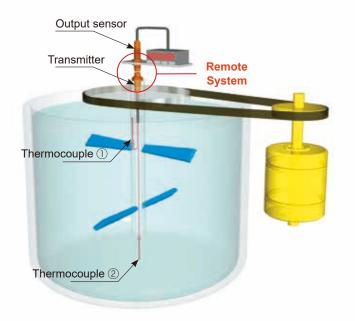
Remote System

After improvement

- Eliminated stress points, eliminated cable breakage problems.
- Turntable can turn continuously, without homing. Improved efficiently.

Continuous cycle of Loading, welding and unloading. By using 3 jigs mounted on a turntable turning 120 degree at a time.Remote system supplies power to 8 proximity sensors and transmits their switching state.

Monitoring temperature at the center of a stirring tank



Previous problems

 Very difficult to properly mix the materials without knowing center temperature of the tank.

Solution!



Remote System

After improvement

- Placed thermocouple in the center, measuring accurate temperature.
- Measured data of a thermocouple is transmitted, while agitating.

Monitor center temperature of the content in the tank, adjust the speed of agitator accordingly. Remote Sensor is installed on top of the agitator shaft, and transmits the measuring data of the thermocouple.

Workpiece identification, solenoid valve actuation and clamp confirmation on pallet

Prox. sensor for detection and identification Output unit Remote amplifier Remote System

Previous problems

- Change-out of large pallets are time consuming and labor intensive.

Solution!



Remote System

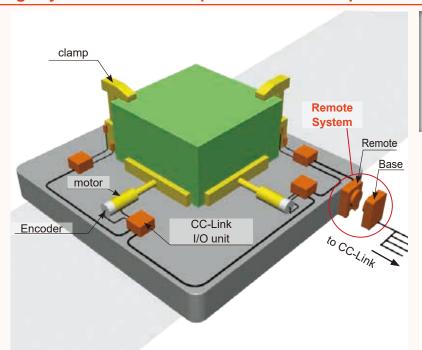
After improvement

 Identification, mount and seating confirmation of the workpieces are automated, preparation time was reduced drastically.

Automatically identify and mount the workpiece from it's shape.

Remote System sends power to 32 proximity sensors and 4 solenoid valves also transmits their signals.

Jig adjustment and clamp confirmation on pallet



Previous problems

- Desire to manage whole assembly line with CC-Link.
- Mount adjustment manually done by operators.

Solution!



Remote System

After improvement

- Sending of power and the data communication of CC-Link are performed simultaneously without hardwiring.
- Automated adjustment of the jig improved loading efficiency.

Control a Motor, an encoder, a solenoid valve and a sensor installed on the pallet. Utilizing field BUS CC-Link. Remote System sends power to CC-Link remote I/O on a pallet and transmits CC-Link data.

Product overview

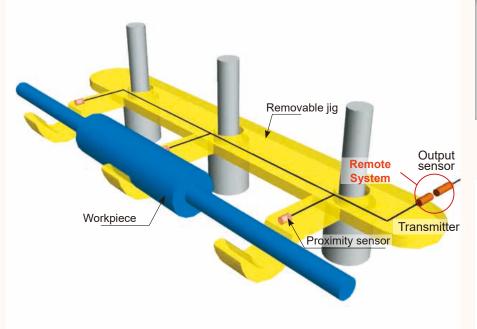
Function &

Application

Product

Description of terms

Confirming workpiece on a removable jig



Previous problems

Manual attaching and detaching of the connectors required for every jig replacement.

Solution!



After improvement

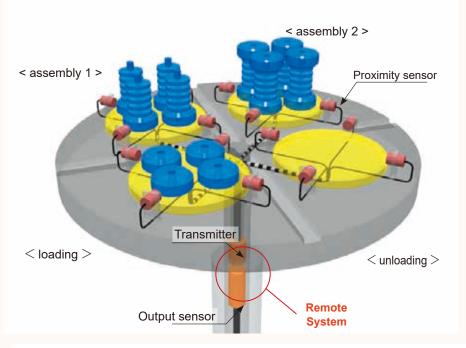
- Eliminated connection process.
- Faster change-out time.
- Eliminated wear and tear components.

Replace welding jig according to the shape of the workpiece.

Confirm the seating of the workpiece, and weld.

Remote system sends power to proximity sensors and transmits their switching state.

Confirming presence of workpiece on a turntable (360 degree continuous transmission)



Previous problems

- No productive method to install sensors on a turntable available.
- Seating of workpieces visually confirmed by operator every time.

Solution!



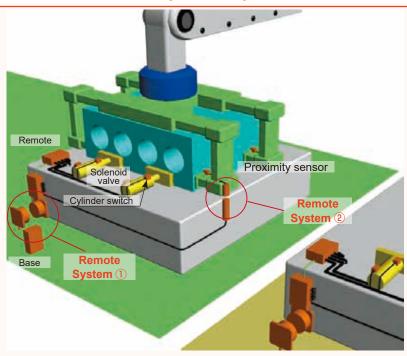
Remote System

After improvement

- Successfully installed 16 functional sensors.
- Eliminated visual confirmation enabled full automation.
- Continuous use of all sensors possible by heads installed in the center.

Load, assembly and unload process, by using 4 jigs on a turntable. Turning 90 degree at a time. Remote system is installed on the center. Providing power to 16 sensors and transmits their signals simultaneously.

Confirmation of workpiece on pallet and robot hand (Two air gaps transmission)



Previous problems

- Desire to eliminate connection leadtime of sensors and solenoid vales on the pallet.
- Also have desire to eliminate connection time for robot hand enge-outs.

Solution!

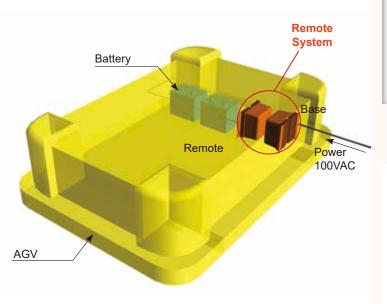


After improvement

- Eliminated connection labor on the pallet eliminated time loss.
- Also eliminated connection labor on robot hand change-outs.
- Production line was fully automated.

Confirm and mount workpiece by utilizing sensors and solenoid valves, also workpiece recognition on robot hand transmitted through pallet with the 2 airgap transmission.

Battery charging of automatic guided vehicle (AGV)



Previous problems

- Desire to eliminate battery changeouts during operation hours.
- Desire to extend interval of the battery charges.

Solution!



Remote System

After improvement

- Eliminated need for battery changeouts.
- Extended interval of full charging, improved efficiency.
- No exposed terminals, no risk to operators.

The battery of AGV units are partly charged during the waiting time at stops.

Product overview

Function &

Application

Product

Description of terms

Wireless power supply and detected signal transmission

Remote Sensor System



- < applications >
- Confirming work piece on the turntable and pallet.
- Monitoring the temperature of the die or heatup container.

Wireless Power Supply	Drive voltage	12V DC or 24V DC
	Drive current	5mA 550mA
Signal	Switch signal	Standard sensor : 1 16 signals Exclusive proximity sensor : 1, 8 signals
transmission	Analog Signal	Thermocouple,Resistance thermometer, Load cell, Analog sensor

Switch signal transmission

For DC 3 wire sensor

Regular type Number of signal : 1, 4, 8

Terminal unit type
Number of signal: 8, 16

Regular type

Terminal unit type



For DC 2 wire sensor

Regular type

Number of signal: 1, 2,

4,8,15

<u>Terminal unit type</u> Number of signal: 8, 16





For exclusive proximity sensor

Number of signal: 1, 8



If you can not find the applicable products in this catalogue, please contact us.

We will endeavor to provide a "Remote System" to fulfill your needs as far as possible.



T-slot shape



Ring shape

Analog signal transmission

For Thermocouple Number of signal:

K type: 1, 2 J type: 2

For Resistance thermometer

Number of signal: 1

For Load cell

Number of signal: 1

For Analog sensor Number of signal : 1



Thermocouple (1 signal, 2 signals)





Resistance thermometer (1 signal)



Analog sensor type (1 signal)

Wireless power supply and bi-directional signal transmission Wireless Power Supply

Remote Coupler System



- < applications >
- Confirming of the work piece on the moving device and start up the solenoid
- Transmits the inspection data of pallet

Wireless Power Supply	Drive voltage	24V DC
	Drive current	300mA、1A、2A
Signal	Switch signal	4+4, 8+8, 64+32
transmission	Data Signal	RS-232C,CC-Link, DeviceNet

Remote Power Supply System



- < applications > - Wireless power
- supply to the movable devices
- Charging at the AGV parking spot

Wireless Power	Drive	24V DC
Supply	Voltage / current	/ 1A、2A
Wireless charging	Output Voltage / current	30V DC / 7A

Product overview

Function & Features

Product range

Switch signal transmission

4+4 transmission

Bi-directional transmission of 4 detected signals+ 4 control signals



8+8 transmission

Bi-directional transmission of 8 detected signals+ 8 control signals



64+32 transmission

Bi-directional transmission of 64 detected signals+ 32 control signals



Interface with the host computer: Parallel, CC-Link, DeviceNet, EtherNet/IP

Power supply only

Parallel

24V DC/2A



Overlap

24V DC/1A



Power supply only

Parallel

30V DC/7A (It varies depending on battery voltage)

CE not acquired Use only in Japan



Data Signal transmission







Description of terms

Terms listed in this catalog are described below.

< Name of each part of Remote system >

It described as "Transmitter"/"Output sensor" in Remote Sensor System and "Remote part"/"Base part" in the power supply system. In this section, it describes that "Transmitter and Remote part" as "Transmitter", "Output sensor and Base part" as "Output sensor"

1) Transmitter and Output sensor

By facing Transmitter and Output sensor, Remote system performs wireless transmission of the power and signals by inductive coupling

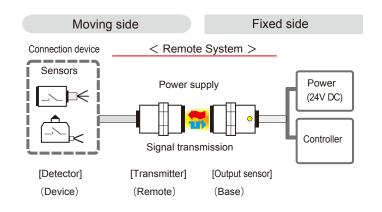
Transmitter (Remote)

Transmitter is mounted to the moving side such as pallet and connect devices such as switches, which used on the moving side.

Transmitter receives power from the output sensor, it supplies power to connected devices and transmits the I/O singals to output sensor.

Output sensor (Base)

Output sensor is mounted on the fixed unit and connected to the external control devices and external power supply. When transmitter comes in the transmission area of output sensor, it performs signal transmission and communication with external control devices simultaneously.



2) Drive voltage / Drive current

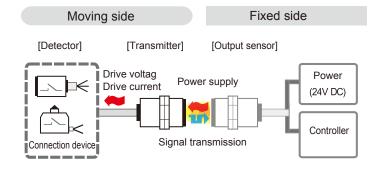
Power supplied from transmitter to those connected devices such as sensors and actuators are described as "Drive voltage " and "Drive current"

Drive voltage

The voltage, which supplied from transmitter to connected devices. It is kept constant in the rated transmission distance.

Drive current

The voltage, which supplied from transmitter to connected devices.-Please design the system that the total current consumption of connecting devices not to exceed the value of drive current.



3) Operating voltage and Current consumption

Operating voltage and current consumption are the power which supplied to output sensor of the fixed unit.

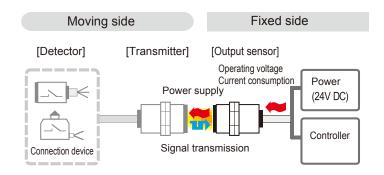
Power supply

The voltage to operate the output sensor and supplying power to transmitter. If the voltage is below the operating voltage range, power cannot be supplied to the transmitter and then signal transmission cannot be performed.

Current consumption

The current to drive output sensor, transmitter and devices which connected to transmitter.

To confirm the existance of transmitter, output sensor consumes slight current in its stand-by mode.



4) Operating distance and Center offset

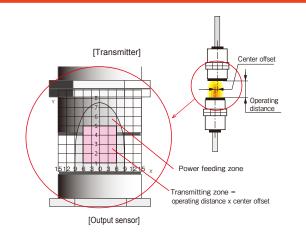
Operating distance and center offset indicates the area where the rated power supply and the signal transmission between transmitter and output sensor can be performed stable.

Operating distance

The distance between the active face of transmitter and output sensor.

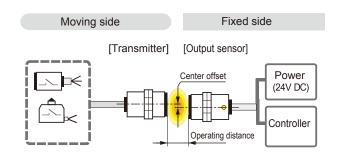
Center offset

The deviation of the center axis of each of the transmitter and the output sensor.



5) Inzone

It means that the transmitter exists in the output sensor's power feeding range and the signal transmission status is available. The output sensor outputs the signal and indicates the LED during Inzone. (There are some exceptions.)



6) Frequency of operation and Response delay

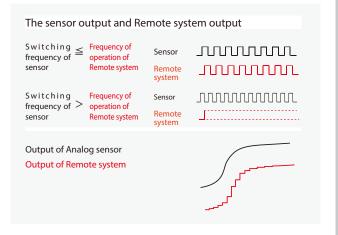
The signal transmission speed of Remote system is indicated by "response delay" in switch signal transmission type and by "frequency of operation" in analog signal transmission type.

Frequency of operation

The speed, which the switch signal transmission type remote system transmits the ON/OFF signals, it is shown as "maximum frequency" in the catalog. When transmits the signals that do the-ON/OFF 10 times per 1 second with the frequency of operation of 30Hz Remote system, when the signal do ON/OFF more than 30 times, it is not output in normal waveform.

Response delay

It is a time that after the transmitter of the analog signal transmission Remote system detected the sensor signal and until the output sensor outputs corresponding signal.



7) Residual voltage and Load capacity of the available sensor

As a condition of detector sensor, which can be connected to th Remote system / switch signal transmission type transmitter, the value of "residual voltage" and "load capacity" are defined.

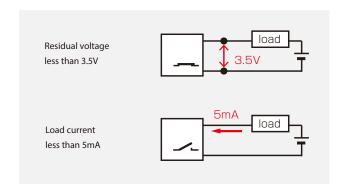
Residual voltage

The voltabe between power + and - when detector sensor is ON. If this voltage is larger, "ON voltage" to the transmitter of remote system becomes smaller and transmitter cannot recognize ON. Please use the sensor with the residual voltage less than 3.5V.

Load current

DC 2 wire Remote system Transmitter flows 5 mA as load. If the load capacity of the connected sensor is less than 6mA-100mA, unit doesn't work due to the insufficient load capacity.

Please use the sensor with the lower limit of load capacity 5mA.



Product overview

Function &

Application

Product

Description of terms

Safety Considerations

[Notes for designing]

- Remote System is a system, which supplies/transmits the power/signals wirelessly to the switches. Please do not use the system except for this purposes.
- Please design the system to work safely in case of the unit malfunction or external power supply failure.
- For power supply / condition of use, design the system not to exceed the specifications of the unit as indicated in the user's guide or manuals
- Some of products with the wireless power supply over 24V/500mA, it is recommended to install to the metal in order to mitigate the effects of self-heating.
- Remote Coupler system, which supplies the power over 24V/1A, make sure to avoid metals within the 45mm of the transmission surface.

[Precautions]

- Please supply prescribed power by the specification. Do not exceed the specified rated voltage as it may cause overheating or ignition.
- When wiring the power supply and signal line, please follow to the attached user's guide or instruction manuals for correct wiring. Mis-wiring or wrong connection may cause unexpected malfunction and breakdown of the unit.
- Remote Coupler system, which supplies the power over 24V/1A, when power was turned on while cutting chips or pieces of metal exist on the transmission surface, the head and the metal piece heats up and this may cause for unexpected accidents or damage to the equip ment. Please be sure to run the system after removing metal chips and slugs from the transmission surface. (Especially, when a tiny piece of metal exists on the transmission surface, it may get to over 100 degree C.)
- The total current consumption of connecting switch and driving units must not exceed the value of drive current.
- Please turn off the Remote System before any performances such as mounting, maintenance or breakdown.
- Please do not dismantle / modify the unit.lt may cause breakdown or malfunction of the unit as well as cause for fire.
- When disposing the product, please treat it as industrial waste.

Radio law in Japan

Remote System as below corresponds to "Equipment which use high frequency more than 10kHz and have power more than 50W" in the radio law Article 100. These are System of "High frequency utilization equipment". Thus, it needs to apply in accordance with the procedures of High Frequency Utilization equipment of Ministry of Internal Affairs and Communications. For more information, please refer to the website of the Telecommunications Ministry of Internal Affairs and Communications.

Remote Power Supply System:

Charging unit: RCS210-PB24
Power Supply unit: RCS240-AC1
Passive head: RCS240PH
Active head: RCS240AH

Please refer to the instruction of User's guide supplied with the products for installation and operation.

Contents

				4				
Product overview	Functions and Features							
	Application			6				
Product range								
Description	of terms			12				
Safety Considerations								
Product list								
			DC 3-wire Detector type	32				
		Switch signal	DC 2-wire Detector type	48				
			Exclusive Detector type	66				
	Remote Sensor System		Thermocouple type	70				
		Analog Signal	Resistance thermometer type	74				
		Transmission	Load cell type	76				
			Analog sensor type	78				
			4+4 transmission	82				
Consideration		Transmission Switch signal	8+8 transmission	84				
Specification	Remote Coupler System		64+32 transmission	86				
			RS-232C type	90				
		Data Signal	CC-Link type	92				
			DeviceNet type	94				
		Power supply	Parallel Coupling type	98				
	Remote Power Supply System	only	Overlap Coupling type	100				
		Charging	Parallel Coupling type	102				
		Exclusive sensor						
	Accessories	Terminal Box an	nd others	108				
	Wiring			118				
Appendix	Discontinued plans			129				
	Index			130				

Product list

Remote Sensor

Remote Coupler

Remote Power Supply

Accessories

Switch signal transmission

DC 3-wire Detector type



DC 3-wire standard sensors can be used on the moving part.



Remote system supplies power to standard sensors - such as proximi ty sensors, photoelectric sensors and reed switches - and also transmits their detected signals.

DC 2 wire sensor can be connected via registor.

Wide square transmission surface type is available.

Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire
Detector type

DC 2-wire Terminal unit

detector type
Thermocouple

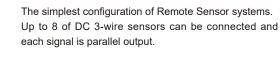
Resistance thermometer type

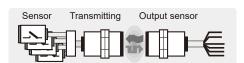
Analog

Exclusive Proximity sensor Terminal box

Other unit
Custom

Regular type





	Transmis	sion Specifica	ations	Тур				
No.of Signals	Size	Max.Operating distance	Drive voltage & max. current	Transmitter	Output sensor	Remark	Page	
				RPT-1804 □ -PU-01	RPE-1804 -PU-02			
			12V DC	RPT-1804 □ -PU-CP0.3	RPE-1804 □ -PU-CP0.3	Pre-wired connector		
	M18	4 mm	30 mA	RPT-TF1804	RPE-TF1804 □ -PU-02	Anti-weld slag	32	
			001117	RPT-TF1804 -PU-CP0.3	RPE-TF1804 -PU-CP <u>0.3</u>	Pre-wired connector		
1				 _		Pre-wired connector		
				RPT-3008 -PU- <u>01</u>	RPE-3008 -PU- <u>02</u>	B		
	M30	8 mm	12V DC	RPT-3008 -PU-CP <u>0.3</u>	RPE-3008 - PU-CP <u>0.3</u>	Pre-wired connector	33	
			30 mA	RPT-TF3008PU- <u>01</u>	RPE-TF3008PU- <u>02</u>	Anti-weld slag		
				RPT-TF3008 ☐ -PU-CP <u>0.3</u>	RPE-TF3008 ☐ -PU-CP <u>0.3</u>	Pre-wired connector		
	M18	3 mm	12V DC	RPTA-1803-PU- <u>01</u>	RPEA-1803 □ -PU- <u>02</u>		34	
	IVITO	3 111111	30 mA	RPTA-TF1803-PU- <u>01</u>	RPEA-TF1803 ☐ -PU- <u>02</u>	Anti-weld slag	J-7	
4		_	12V DC	RPTA-3005-PU- <u>01</u>	RPEA-3005 🗌 -PU- <u>02</u>		0.5	
	M30	5 mm	30 mA	RPTA-TF3005-PU- <u>01</u>	RPEA-TF3005 🗌 -PU- <u>02</u>	Anti-weld slag	35	
	M30	5 mm	12V DC 150 mA	RGPT-3005-V1215-PU- <u>01</u>	RGPE-3005-V1215 -PU- <u>02</u>		36	
8	40 x 40	8 mm	12V DC 200 mA	RGPT-4008-V1220A-PU- <u>01</u> RGPT-4008-V1220B-PU- <u>01</u>	RGPE-4008-V1220		37	
	80 x 80	22 mm	12V DC 100 mA	RPTA-8015-PU- <u>01</u>	RPEA-8015 - PU- <u>02</u>		38	
	90 x 90	12 mm	24V DC	RGPT-9012-V2430-PU-01	RGPE-9012-V2430 -PU-02		39	
			300 mA					
12	45 x 45	5 mm	12V DC 230 mA	RS12T-422-PU- <u>01</u>	RS12E-422 □ -PU- <u>02</u>		40	

-Please be sure to use transmitter and output sensor in the combination of the same size with same specifications.

-The drive voltage and current is the power which is supplied to sensors from the Transmitter. The drive current is affected by transmission distance and center offset.

Pre-wired connector

Reduced the wiring procedures. M12 connector (Transmitter;female, output sensor; male) is included.The standard cable length is 30 cm.



Anti-weld slag

With the fluorine resin coated housing and fluorine resin cap, weld splatter is less likely to stick.

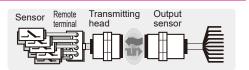




Terminal unit type



Change the transmitter to connectorized and make it easy and accurate wiring. Downsizing the head by separating transmitter.8 or 16 sensors are connectable. Wireless power supply 24 V DC/550 mA type is available.



Transmission Specifications			ications	Type Code					
No.of Signals	Size	Max. Distance	Drive voltage Drive current	Trans Remote terminal	Transmitter Remote terminal Transmitting head Output sensor		Remark	Page	
8	M30	0mm	12V DC	RS8TA-222P-S04	RSH8T-030-PU-CP <u>1.0</u>	RSH8E-030 ☐ -PU- <u>02</u>		42•43	
	8 10130	8mm	OHIIII	150 mA	RS8T-222P-S04	RSH8T-TF030-PU-CP <u>1.0</u>	RSH8E-TF030 -PU- <u>02</u>	Anti-weld slag	42*43
		8mm	12V DC	RS16TA-211P-S04	RSH16T-030-PU-CP <u>1.0</u>	RSH16E-030 ☐ -PU- <u>02</u>		44•45	
16	M30	Omm	150 mA	RS16T-211P-S04	RSH16T-TF030-PU-CP <u>1.0</u>	RSH16E-TF030 -PU-02	Anti-weld slag	77 70	
	14100	5mm	24V DC 550mA	RS16TB-211P-S04	RSH16TB-030-PU-CP <u>1.0</u>	RSH16EB-030P-PU- <u>02</u>		46•47	

Product

list

Remote Sensor

Remote Coupler

Remote Power Supply

Terminal Box (Accessories)



Terminal box for connecting detector sensors and general transmitter.

For RPK series, by switching internal DIP switch, DC 2wire sensor can be connected to the DC 3 wire Remote system.

Product range		Type Cod	е	Remark	Page	
Standard	- A box for factory automation		RPK-2102	DC 3-wire and 2-wire sensor		
type	system is used as the housing Protection class; IP 65	8 detectors	RPK-2101	DC 3-wire and 2-wire sensor 8x1 side	108	
	1 1010011011 01000, 11 00		RPK-2103	DC 3-wire and 2-wire sensor 4x2 side		
Waterprooof		8 detectors	RPK-A098-02	DC 3-wire and 2-wire sensor 4x2 side		
type	a round screw lid Protection class; IP 67.		RPK-A098-03	DC 3-wire and 2-wire sensor 8x1 side	110	
			RPK-B148-02	DC 3-wire and 2-wire sensor		
Connector	- Detectors can be connected to	4 detectors	RPK-4C01-	DC 3-wire and 2-wire sensor		
type	Terminal Box with connectors Protection class; IP 67.	8 detectors	RPK-8C01-	DC 3-wire and 2-wire sensor	112	
			RPK-8C01L-	applicable Transmitter RGPT-xxxx		
AC conversion unit	- Supplies power to AC 2-wire sensor.	4 detectors	RGP4T-AC100-KB02A	applicable Transmitter RGPT-9012. Converts the drive voltage 24 V DC into 100 V AC.	114	

Operation checker for transmitter and output sensor is available.

Accessories

	☐ in type code means N → NPN or at the end means cable length. Examples are showed below.	described in meter.				
Type Code Example	Transmitter RPT-1804N-PU-01 N=NPN Cable length(m) P=PNP 01=1m (standard) D=DC2W 02=2m 03=3m	Output sensor RPE-1804N-PU-02	(Pre-wired connector) Basic Code - CP0.3 Cable length(m) 0.3=30cm (standard) 0.5=50cm			
	The standard cable length is 1m for the Transmitter, 2 m for the Output sensor and 0.3 m for the Transmitter and the Output sensor of pre-wired connector type.					

Remote Sensor System Switch Signal Transmission / DC 2-wire Detector type

DC 2-wire Detector type



DC 2-wire standard sensors can be used on the moving part.



Supply the power as well as transmit the signals to general sensors such as proximity switches, auto switches and limit switches.

Anti-weld slag type is available.

Remote Sensor

DC 3-wire

Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive

Thermocoupl

Resistance

sensor type

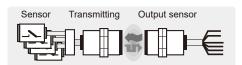
Exclusive Proximity sensor

Terminal box Other unit

Custom

1 (0	gaidi typo	
1	-	/

The simplest configuration of Remote Sensor systems. Up to 15 of 2-wire sensors can be connected and each signal is parallel output.



No.of Size Distance Divise voltage / Distance Divise current D	Transmission Specifications			ations	Туре												
M18		Size			Transmitter	Output sensor	Remark	Page									
M18		M10	2 mm		RPT-1202D-PU- <u>01</u>	RPE-1202 -PU-02		40									
M18		IVIIZ	2 111111]	RPT-1202D-PU-CP <u>0.3</u>	RPE-1202 ☐ -PU-CP <u>0.3</u>	Pre-wired connector	40									
M18					RPT-1804D-PU- <u>01</u>	RPE-1804 □ -PU- <u>02</u>											
12V DC 5 mA 12V DC 6 m		M18	4 mm		RPT-1804D-PU-CP <u>0.3</u>	RPE-1804 □ -PU-CP <u>0.3</u>	Pre-wired connector	40									
M30		IVIIO	7 111111	121/ DC	RPT-TF1804D-PU- <u>01</u>	RPE-TF1804 -PU-02	Anti-weld slag	73									
M30 8 mm RPT-3008D-PU-01 RPE-3008 -PU-02 Pre-wired connector RPT-175008D-PU-01 RPE-175008 -PU-02 Anti-weld slag Anti-weld slag RPT-175008D-PU-01 RPE-175008 -PU-02 RPT-175008D-PU-01 RPE-175008 -PU-02 RPT-175008D-PU-01 RPE-175008 -PU-02 RPT-175008D-PU-01 RPT-175008D-PU-01 RPT-175008D-PU-01 RPT-175008D-PU-01 RPT-175008D-PU-01 RPT-176004D-PU-01 RPT-176004D-PU-01 RPT-176004D-PU-01 RPT-176004D-PU-01 RPT-176004D-PU-01 RPT-176004D-PU-01 RPT-176005D-PU-01 RPT-17600	1			1	RPT-TF1804D-PU-CP <u>0.3</u>	RPE-TF1804 - PU-CP <u>0.3</u>	Anti-splatter, Pre-wired										
RPT-TF3008D-PU-01 RPE-TF3008 -PU-02 Anti-weld slag SU RPT-TF3008D-PU-CP0.3 RPE-TF3008 -PU-02 Anti-weld slag Su RPT-TF3008D-PU-O1 RPE-F0 -PU-02 Flat Type S1 RPT-2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-1804D-PU-01 RPT2-18005D-PU-01 RPT2-18005D-PU-02 Anti-weld slag S5 RPT3-18005D-PU-01 RPT2-18005D-PU-02 Anti-weld slag S6 RPT3-18005D-PU-01 RPT2-18000D-PU-02 Anti-weld slag S7 RPT3-18005D-PU-01 RPT3-1800D-PU-01 RPT3-1800D-PU-02 Anti-weld slag S7 RPT3-18005D-PU-01 RPT3-1800D-PU-01 RPT3-1800D-PU-02 Anti-weld slag S7 RPT3-18005D-PU-01 RPT3-1800D-PU-01 RPT3-1800D-PU-02 Anti-weld slag S7 RPT3-18005D-PU-01 RPT3-1800D-PU-02 Anti-weld slag S7 RPT3-18005D-PU-01 RPT3-1800D-PU-02 RPT3-1800D-PU-02 RPT3-1800D-PU-02 RPT3-1800D-PU-02 RPT3-1800D-PU-02 RPT3-1800D-PU-02 RPT3-1800D-PU-01 RPT3-1800D-PU-02 RPT3-1800D-PU				0 1117 (RPT-3008D-PU- <u>01</u>												
RPT-F3008B-PU-01 RPE-FF3008 -PU-02 Anti-weld slag RPT-F5008B-PU-01 RPE-FF3008 -PU-02 Anti-weld slag RPT-F50D-PU-01 RPE-FF0 -PU-02 Flat Type 51		M30	8 mm			+		50									
S0x25		11100	0 111111		RPT-TF3008D-PU- <u>01</u>	<u> </u>	Anti-weld slag	00									
M18				_			 ' ' 										
M18		50x25	1.5mm		-	RPE-F0 □ -PU- <u>02</u>	Flat Type	51									
M18						RPF2-1804 □ -PU-02											
Anti-weld slag Transmiter-Pre-wired connector Transmiter-Pre		M18	18 4 mm	4 mm	4 mm	4 mm				Transmitter:Pre-wired connector	52						
12V DC 5 mA×2 RPT2-TF1804D-CP0.3 RPE2-3005						RPE2-TF1804 □ -PU-02	Anti-weld slag										
M30 5 mm 5 mA×2 RP12-3005D-PU-01 RPE2-3005 □ -PU-02 Transmitter-Pre-wired connector FRP12-3005D-CP0.3 RP12-TF3005D-PU-01 RP12-TF3005D-PU-01 RP12-TF3005D-PU-02 Anti-weld slag Transmitter-Pre-wired connector FRP12-TF3005D-PU-01 RP12-TF3005 □ -PU-02 Anti-weld slag Transmitter-Pre-wired connector FRP12-TF3005D-PU-01 RP12-TF3005 □ -PU-02 Anti-weld slag FRP12-TF3005□ -PU-02 Anti-weld slag FRP12-TF3005□ -PU-02 Anti-weld slag FRP12-TF3005□ -PU-02 Anti-weld slag FRP12-TF3007D-PU-01 RP12-TF3000□ -PU-02 RP12-TF3005D-PU-01 RP12-TF3000□ -PU-02 RP12-TF3000□ -PU-02 RP12-TF3005D-PU-01 RP12-TF3000□ -PU-02 RP	0			12V DC	RPT2-TF1804D-CP <u>0.3</u>		Transmitter:Pre-wired connector										
M30 5 mm RPT2-3005D-CP0.3 Transmitter-Pre-wired connector RPT2-TF3005D-PU-01 RPE2-TF3005 -PU-02 Transmitter-Pre-wired connector RPT2-TF3005D-CP0.3 RPE2-TF3005 -PU-02 Transmitter-Pre-wired connector RPT4-1803D-PU-01 RPE4-1803 -PU-02 Anti-weld slag S4 RPT4-3005D-PU-01 RPE4-TF1803 -PU-02 Anti-weld slag S5 RPT4-TF3005D-PU-01 RPE4-TF3005 -PU-02 Anti-weld slag S5 RPT4-TF3005D-PU-01 RPE4-TF3005 -PU-02 Anti-weld slag S6 RPT8-TF3005D-PU-01 RPE8-TF3000 -PU-02 Anti-weld slag S6 RPT8-TF3007D-PU-01 RPE8-TF3000 -PU-02 Anti-weld slag S7 RPT8-TF3007D-PU-01 RPE8-TF3000 -PU-02 Anti-weld slag S7 RPT8-TF3007D-PU-01 RPE8-TF3000 -PU-02 S0 degree C S8 RS08TA-018D-PU-01 RS08EA-018 -PU-02 S0 degree C S9 S6 RS08TA-030D-PU-01 RS08EA-030 -PU-02 S0 degree C S9 RS08TA-030D-PU-01 RPE15-3000 -PU-02 S0 degree C S9 RPT15-3005D-PU-01 RPE15-3000 -PU-02 S0 degree C S9 S0 degree C S0	2		M30 5 mm	5 mA×2	RPT2-3005D-PU- <u>01</u>	PPE2-3005 □ -PII-02											
M18 3 mm		Man		5 mm	5 mm	5 mm	130 5 mm	5 mm	5 mm	5 mm	5 mm	5 mm		RPT2-3005D-CP <u>0.3</u>		Transmitter:Pre-wired connector	E2
M18 3 mm		IVIOU									RPT2-TF3005D-PU- <u>01</u>		Anti-weld slag	33			
4 M18 3 mm 12V DC RPT4-TF1803D-PU-01 RPE4-TF1803 -PU-02 Anti-weld slag 54 M30 5 mm 12V DC RPT4-3005D-PU-01 RPE4-3005 -PU-02 Anti-weld slag 55 M18 3 mm 12V DC RPT8-1803D-PU-01 RPE8-1800 -PU-02 Anti-weld slag 56 8 M30 7 mm 22V DC RPT8-3007D-PU-01 RPE8-3000 -PU-02 Anti-weld slag 57 M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 -PU-02 80 degree C 58 M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 -PU-02 60					RPT2-TF3005D-CP <u>0.3</u>	RPE2-1F3005PU- <u>02</u>	Transmitter:Pre-wired connector	1									
4 12V DC 5 mA×4 RPT4-TF1803D-PU-01 RPT4-3005D-PU-01 RPE4-TF1803 □ -PU-02 RPE4-3005 □ -PU-02 Anti-weld slag M18 3 mm 12V DC 5 mA×8 RPT8-1803D-PU-01 RPT8-TF1803D-PU-01 RPE8-1800 □ -PU-02 RPE8-1800 □ -PU-02 Anti-weld slag 8 M30 7 mm 22V DC 5 mA×8 RPT8-3007D-PU-01 RPT8-TF3007D-PU-01 RPE8-3000 □ -PU-02 RPE8-3000 □ -PU-02 Anti-weld slag M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 □ -PU-02 80 degree C 58 M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 □ -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 □ -PU-02 80 degree C 59		1440	0	İ	RPT4-1803D-PU- <u>01</u>	RPE4-1803 -PU- <u>02</u>											
M30 5 mA×4 RPT4-3005D-PU-01 RPE4-3005 -PU-02 -PU-02 Anti-weld slag 55 M18 3 mm 12V DC 5 mA×8 RPT8-1803D-PU-01 RPE8-1800 -PU-02 Anti-weld slag 56 M30 7 mm 22V DC 5 mA×8 RPT8-3007D-PU-01 RPE8-3000 -PU-02 Anti-weld slag 57 M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 -PU-02 80 degree C 58 M30 7 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 -PU-02 60		M18	3 mm	12V DC	RPT4-TF1803D-PU- <u>01</u>	RPE4-TF1803 -PU-02	Anti-weld slag	54									
8 M18 3 mm 12V DC 5 mA×8 RPT8-1803D-PU-01 RPE8-1800 P-PU-02 RPE8-1800 P-PU-02 Anti-weld slag 56 8 M30 7 mm 22V DC 5 mA×8 RPT8-3007D-PU-01 RPE8-3000 P-PU-02 RPE8-3000 P-PU-02 RPE8-TF3000 P-PU-02 RPU-02 RPE15-3000 P-PU-02 RPE15	4			5 mA×4	RPT4-3005D-PU- <u>01</u>	RPE4-3005 -PU-02											
8 M18 3 mm 5 mA×8 RPT8-TF1803D-PU-01 RPE8-TF1800PU-02 Anti-weld slag M30 7 mm 22V DC 5 mA×8 RPT8-3007D-PU-01 RPE8-3000PU-02 Anti-weld slag M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 - PU-02 80 degree C 58 M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 - PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 - PU-02 60		M30	5 mm		RPT4-TF3005D-PU- <u>01</u>	RPE4-TF3005 -PU-02	Anti-weld slag	55									
8 M30 7 mm 22V DC 5 mA×8 RPT8-TF1803D-PU-01 RPE8-3000 -PU-02 Anti-weld slag M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 -PU-02 80 degree C 58 M30 7 mm 5 mA×8 RPT8-TF3005D-PU-01 RS08EA-030 -PU-02 80 degree C 59 RS08TA-030D-PU-01 RS08EA-030 -PU-02 80 degree C 59 RS08TA-030D-PU-01 RS08EA-030 -PU-02 80 degree C 59		1440	0	12V DC	RPT8-1803D-PU- <u>01</u>	RPE8-1800 -PU-02											
8 M30 7 mm 5 mA×8 RPT8-TF3007D-PU-01 RPE8-TF3000 □ -PU-02 Anti-weld slag M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 □ -PU-02 80 degree C 58 M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 □ -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 □ -PU-02 60		M18	3 mm	5 mA×8	RPT8-TF1803D-PU- <u>01</u>	RPE8-TF1800 -PU-02	Anti-weld slag	56									
M30 5 mm 5 mm RPT8-TF3007D-PU-01 RPE8-TF3000 □ -PU-02 Anti-weld slag M18 3 mm 12V DC RS08TA-018D-PU-01 RS08EA-018 □ -PU-02 80 degree C 58 M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 □ -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 □ -PU-02 60	•	1400		22V DC	RPT8-3007D-PU- <u>01</u>	RPE8-3000 □ -PU- <u>02</u>											
M30 7 mm 5 mA×8 RS08TA-030D-PU-01 RS08EA-030 □ -PU-02 80 degree C 59 15 M30 5 mm 12V DC RPT15-3005D-PU-01 RPE15-3000 □ -PU-02 60	8 1	M30	/ mm	5 mA×8	RPT8-TF3007D-PU- <u>01</u>	RPE8-TF3000 □ -PU- <u>02</u>	Anti-weld slag	57									
15 M30 5 mm 12V DC RPT15-3005D-PU- <u>01</u> RPE15-3000 □ -PU- <u>02</u>		M18	3 mm	12V DC	RS08TA-018D-PU- <u>01</u>	RS08EA-018 -PU-02	80 degree C	58									
15 M30 5 mm 1 - 1 - 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4		M30	7 mm	5 mA×8	RS08TA-030D-PU- <u>01</u>	RS08EA-030 -PU-02	80 degree C	59									
	15	Man	E mm	12V DC	RPT15-3005D-PU- <u>01</u>	RPE15-3000 -PU-02		60									
5 mA×15 RPT15-TF3005D-PU-01 RPE15-TF3000 - PU-02 Anti-weld slag	15	M30	130 l 5 mm l		RPT15-TF3005D-PU- <u>01</u>	RPE15-TF3000 -PU-02	Anti-weld slag	60									

⁻ Please be sure to use transmitter and output sensor in the combination of the same size with same specifications.

Pre-wired connector

The pre-molded M12 connector reduces the wiring procedures. (Transmitter:female, Output sensor:male).The standard cable length is 30 cm.



Anti-weld slag

With the fluorine resin coated housing and fluorine resin cap, weld splatter is less likely to stick.



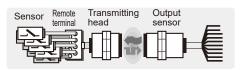
⁻ The drive voltage and current is the power which is supplied to sensors from the Transmitter. The drive current is affected by transmission distance and center offset.



Terminal unit type



Change the transmitter to connectorized and make it easy and accurate wiring. Downsizing the head by separating transmitter.8 or 16 sensors are connectable.



Transmission Specifications			cations	Type Code				
No.of signals	- Size	Max. Distance	Drive voltage Drive current	Trans Remote terminal	smitter Transmitting head	Output sensor	Remark	Page
8 signals	M30	8mm	22V DC 5 mA x 8		RSH8T-030-PU-CP <u>1.0</u> RSH8T-TF030-PU-CP <u>1.0</u>	RSH8E-030	Anti-weld slag	62•63
16 signals	M30	8mm	22V DC 5 mA x 16		RSH16T-030-PU-CP <u>1.0</u> RSH16T-TF030-PU-CP <u>1.0</u>	RSH16E-030	Anti-weld slag	64•65

Exclusive proximity sensor:RXD (Accessories)



Exclusive proximity sensor RFD series can be used as detector for DC2 wire Remote Sensor just like the general 2 wire.



Applicable Demote Concer	Rated sensing	Size	Туре	Code	Remark	Dogo
Applicable Remote Sensor	Distance	Size	Cable type	Pre-wired connector type		Page
DC 2-wire Detector type Transmitter or Remote terminal	1.5 mm	M8	RFD-0801-PU- <u>01</u>	_		
	2 mm	M12	RFD-1202-PU- <u>01</u>	RFD-1202-PU-CP <u>1.0</u>		106
	5 mm	M18	RFD-1805-PU- <u>01</u>	RFD-1805-PU-CP <u>1.0</u>		100
	10 mm	M30	RFD-3010-PU- <u>01</u>	RFD-3010-PU-CP1.0		

Terminal Box (Accessories)



Terminal box for connecting detector sensors and general transmitter.

When wiring DC 2wire Remote Sensor to the terminal box RPK series, please be sure to set the Dip switch to "OFF"

Product range		Type Code		Remark	Page
Standard	- A box for factory auto		RPK-2102	DC 3-wire and 2-wire sensor	
type	mation system is used	8 detectors	RPK-2101	DC 3-wire and 2-wire sensor 8x1 side	108
	as the housing.		RPK-2103	DC 3-wire and 2-wire sensor 4x2 side	
*	- Protection class; IP 65		RFK-3101	DC 2-wire	109
	- Original " α -box"	8 detectors	RPK-A098-02	DC 3-wire and 2-wire sensor 4x2 side	
	which has a round		RPK-A098-03	DC 3-wire and 2-wire sensor 8x1 side	110
	screw lid.		RPK-B148-02	DC 3-wire and 2-wire sensor	1
	- Protection class; IP	15 detectors	RPK-B148-03	DC 2-wire	110
~	67.	8 detectors	RFK-A098-02	DC 2-wire 4 x 2 side	
			RFK-A098-03	DC 2-wire 8 x 1 side	111
Connector	- Detectors can be con nected to Terminal Box	4 detectors	RPK-4C01-	DC 3-wire and 2-wire sensor	
type	with connectors Protection class; IP 67.	8 detectors	RPK-8C01- □	DC 3-wire and 2-wire sensor	112

Operation checker for transmitter and output sensor is available.

		☐ in type code means N → NPN o at the end means cable length. Examples are showed below.	or P $ ightarrow$ PNP. The standard cable length has been described in meter.						
	Type Code Example	Transmitter RPT-1804N-PU-01	Output sensor RPE-1804N-PU-02 Very Cable length(m) P=PNP 02=2m (standard) 03=3m 05=5m	(Pre-wired connector) Basic Code - CP0.3 Cable length(m) 0.3=30cm (standard) 0.5=50cm					
The standard cable length is 1m for the Transmitter, 2 m for the Output sensor and 0.3 m for the Transmitter and the Output sensor of pre-wired connector type.									

Product list

Remote Sensor

Remote Coupler

Remote Power Supply

Accessories

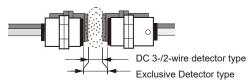
Product List

Remote Sensor System Switch Signal Transmission / Exclusive Detector type

Exclusive Detector type



By using exclusive sensor which works with low electric power, it has longer transmission distance compare to the same size Remote Sensor for general sensors.



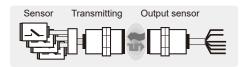
For 1 signal transmission type, there is a "Detector/Transmitter cable molded " type is available.

Remote Sensor

Exclusive detector type

Remote Sensor which uses the exclusive proximity sensor RXD.

1 or 8 RXD series switch(s) can be connected and each signal is parallel output.



Transmission Specifications			Тур			
No.of signals	Size	Max. Distance	Transmitter	Output sensor	Remark	Page
1	M12	2 mm	RXT-1202-PU- <u>01</u> RXT-1202-PU-CP <u>0.3</u> RST-1202-PU- <u>01</u>	RXE-1202	Pre-wired connector for a mechanical sensor	66
ı	M18	5 mm	RXT-1805-PU- <u>01</u> RXT-1805-PU-CP <u>0.3</u>	RXE-1805 □ -PU- <u>02</u> RXE-1805 □ -PU-CP <u>0.3</u>	Pre-wired connector	67
0	M18	5 mm	RXT8-1805-PU- <u>01</u>	RXE8-1800 -PU- <u>02</u>		68
8	M30	10 mm	RXT8-3010-PU- <u>01</u>	RXE8-3000 -PU- <u>02</u>		69

- Please be sure to use transmitter and output sensor in the combination of the same size with same specifications.

Exclusive Proximity sensor

Terminal box Other unit

Custom Products

Pre-wired connector

Reduced the wiring procedures. M12 connector (Transmitter; female, output sensor; male) is included. The standard cable length is 30 cm.



Type Code Example	_ 7.	\square in type code means N \rightarrow NPN or P \rightarrow PNP. at the end means cable length. The standard cable length has been described in meter. Examples are showed below.								
	Transmitter	Output sensor	(Pre-wired connector)							
	RXT-1805-PU-01 Cable length(m) 01=1m (standard) 02=2m 03=3m	RXE-1805 <u>N</u> -PU- <u>02</u>	Basic Code - CP <u>0.3</u> Cable length(m) 0.3=30cm (standard) 0.5=50cm							
	The standard cable length is 1m for the Transmitter, 2 m for the Output sensor and 0.3 m for the Transmitter and the Output sensor of pre-wired connector type.									



Exclusive proximity sensor:RXD (Accessories)



Switches for RXT and RXT8 series. flush mountable and no LED indication.



Applicable Remote Sensor	Rated sensing Distance	Size	Type Code Cable type Pre-wired connector		Remark	Page
Transmitter RXT-xxxx	1.5 mm	M8	RXD-0801-PU- <u>01</u>			
RXT8-xxxx	2 mm	M12	RXD-1202-PU- <u>01</u>	RXD-1202-PU-CP <u>1.0</u>		107
	5 mm	M18	RXD-1805-PU- <u>01</u>	RXD-1805-PU-CP <u>1.0</u>		107
	10 mm	M30	RXD-3010-PU- <u>01</u>	RXD-3010-PU-CP <u>1.0</u>		

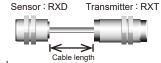
Product list

Remote sensor

Detector/Transmitter cable molded type



RXD/RXT cable molded type, which 1 signal transmission type transmitter RXT and the detector switch RXD are molded on the both ends of a cable is available.



- No wiring is required and can start mountings immediately
- No cable joints increases waterproofness.

1.5 m (1.5)

2 m (2.0)

RXT-1805-PU

How to order detector/transmitter cable molded type

As stated below, please specify the size and cable length for each of detector and transmitter.

example: sensor: RXD-1202 +Transmitter:RXT-1805 + cable length50cm

RXD12/RXT18-PU-0.5

Terminal Box (Accessories)



RXD-1805-PU

RXD-3010-PU

Terminal box for connecting exclusive proximity sensor RXD and Transmitter RXT8.

Product range			Type Code		Remark	Page
Standard type	Waterproof type	Connector type	8 detectors	RFK-3101	Standard type	109
				RFK-A098-02	Waterproof type	111
				RFK-A098-03	Waterproof type] '''
V				RFK-8C01	Connector type	113

Remote Coupler

Remote Power Supply

Accessories

Remote Sensor System Analog signal transmission

Analog signal transmission



Transmits the displacement output of thermocouple or load cell. Output the corresponding analog value.

Remote Sensor

Thermocouple type

DC 3-wire Terminal unit

DC 2-wire Terminal unit

Thermocouple type

Resistance

thermometer type

Load cell type

Analog sensor type



Transmit the temperature measuring signal of thermocouple K/J type and output it as 4...20mA.



Sensor type			No.of	Max.	Size	Type Code		Page
		Measuring range	Signals	Distance	SIZE	Transmitter	Output sensor	raye
	K type	01000°C	1	4 mm	M18	RTT-1804-K100	RTE-1804E-PU- <u>02</u>	70
	K type	01000°C	2	4 mm	M18	RS02T-018-K1000		72
Thermocouple		0300°C	2	4 mm	M18	RS02T-018-K300	RS02E-018E-PU- <u>02</u>	12
	J type	0300°C	2	4 mm	M18	RS02T-018-J300		73

Resistance thermometer type



Transmit the temperature measuring signal of platinum resistance temperature detector Pt100 and output it as 4...20mA.

Resistance thern Pt100	nometer ————		**** ****	0	<u> </u>	Power
				C	utput :	420mA

Sensor type		No.of Max.		Max. Size	Type Code		Page
	Measuring range	Signals	Distance	Size	Transmitter	Output sensor	raye
	0…100℃				RTT-1804-PT1B10-PU- <u>01</u>		
Resistance	0200℃	1	4 mm	M18	RTT-1804-PT1B20-PU- <u>01</u>	RTE-1804E-PU- <u>02</u>	74
thermometer Pt100	0300℃				RTT-1804-PT1B30-PU- <u>01</u>		

Terminal box Other unit

Custom Products

Load cell type



Transmit output signal of compression load cell and output it as 4...20mA.



Sensor type		No.of	Max.	Ci-zo	Type Code		Dogo
	Input sensitivity	Signals	Distance	Size	Transmitter	Output sensor	Page
	1mV/V				RNT-1804-LC10-PU- <u>01</u>		
compression	1.5mV/V	1	4 mm	M18	RNT-1804-LC15-PU- <u>01</u>	RTE-1804E-PU- <u>02</u>	76
type Load cell	2mV/V				RNT-1804-LC20-PU- <u>01</u>		











Analog sensor type



Transmit output signal of analog sensor and output it as 0...10V.



Sensor type		No.of	Max.	Size	Type Code		Page
	Output voltage	Signals	Distance	Size	Transmitter	Output sensor	Page
Analog sensor	010V	1	2.5 mm	M18	RNT-1803-VS10-PU- <u>01</u>	RNE-1803A-PU- <u>02</u>	78

Product list

Remote Sensor

Remote Coupler

Remote Power Supply

Accessories

Type Code Example

Transmitter

Cable length has been described in meter.

Output sensor

RTT-1804-PT1B10-PU-01

Cable length(m)

01=1m

02=2m

03=3m

03=3m

The standard cable length has been described in meter.

Output sensor

RTE-1804E-PU-02

Cable length(m)

02=2m

03=3m

05=5m

The standard cable length is 1m.

The standard cable length is 2m.

Please be sure to use transmitter and output sensor in the combination of the same size with same specifications.

Product List

Remote Coupler System Switch Signal Transmission / Bi-directional

Switch signal transmission



- Possible to bi-directionally transmit detector signal and control signal of moving part.
- 8 + 8 signals transmission type transmit bi-directional signal and simultaneously supply 24DC/2A.
- For 64+32 transmission type, various types of Base Amplifiers corresponding to various fieldbus are provided.

4+4 transmission

Remote Coupler



The simple configuration withou an amplifier.

Transmit bi-directional signals of 4 detectors and 4 actuators and simultaneously supply power 24VDC/300mA.

Max.

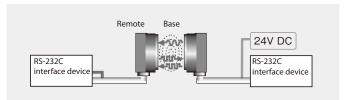
Distance

10 mm

No.of

Signals

4+4



RHPE8-8010 -C3-PU-02

Base

Page

82

Signals
9±9Cwitch

8+8Switch Signals

64+32Switch Signals

RS-232C

CC-Link

DeviceNet

8+8 signals transmission (Separate amplifier)

Drive voltage

Drive current

24V DC / 300mA



Transmit 8+8 bi-directional signals and simultaneously supply power 24VDC/2A.

Remote Base Remote amplifier Remote head Base head Base amplifier RCH08T-211 Up to 8 sensors are connectable max.8 point Up to 4 driving units are connectable Power

Type Code

Exclusive
Proximity sensor
Terminal box

Custom Products

Drive voltage	No.of	Mov		Туре	Code		
ı ı			Remote		Base		Page
	Signais	Signals Dis	iais Distance	Remote amplifier	Remote head	Base head	Base amplifier
24\/ DC / 24	Input 8	9 mm	RC08T-011 -000	RCH08T-211-PU-01	RCH08E-211-PU-02	RC08E-011 -000	84.85
24V DC / 2A	Output 8	9 111111	KC001-011 -000	KCH001-211-PU- <u>U1</u>	KCHU0E-211-PU- <u>U2</u>	KC00E-011 -000	04.00

Remote

RHPT8-8010 -C3-PU-01

 \square in type code means N \rightarrow NPN or P \rightarrow PNP. at the end means cable length. The standard cable length has been described in meter. Please specify in the following manner. <Example> 4 +4 transmission type Type Code Remote Base Éxample RHPT8-8010N-C3-PU-01 RHPE8-8010N-C3-PU-02 L_{N=NPN} Cable length(m) Cable length(m) P=PNF 01=1m 02=2m 02=2m 03=3m The standard cable length is 1m. The standard cable length is 2m.



B

1

RCH08E-211

RCH08E-211

Controller

RL64E-366EI EtherNet/IP

> Controller Power

RL64E-366CL CC-LINK connection

Controller

Power

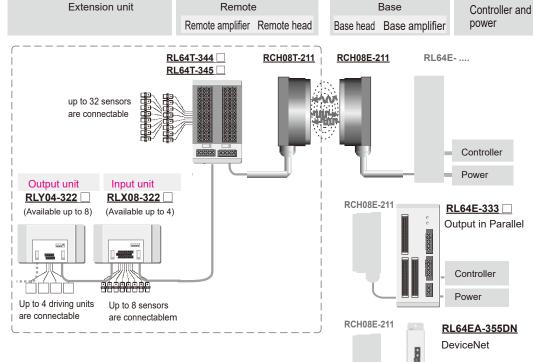
Power



64+32 signals transmission (Separate amplifier)

Drive voltage / Drive current	No.of Signals	Max. Distance	Rel Remote amplifier	Type mote Remote head	Code Ba	Page	
24V DC / 2A	Input 64 Output 32	9 mm	RL64T-344 -000 RL64T-345 -000	RCH08T-211-PU- <u>01</u>	RCH08E-211-PU- <u>02</u>	RL64E-333	84 • 86
Extension unit Number of connectable I/O Type Code			Remark			Page	
Input unit	8x4		RLX08-322 🗌	In the case when no sensor is connected to Remote Amplifier, a maximum of 8 units can be connected.		87	
Output unit	42	k8	RLY04-322 🗌				87

Extention unit makes it possible to connect a maximum of 64 input and 32 output.
Simultaneously transmit I/O signal and supply power 24VDC/2A.



The same Remote Head or Base Head can be used both to 8 +8 or 64+32 signals transmission type. But the Remote part of 8+8 transmission type can not be used with the Base part of 64+32 transmission type. The opposite is true.

Product list

Remote Sensor

Remote Coupler

Remote Power Supply

Accessories

Remote Coupler System Data Signal transmission

Data Signal transmission



- The supply of 24VDC and bi-directional signal transmission are possible with 1 unit.
- Install units of CC-Link or DeviceNet and build a fieldbus network around equipments with rotating or moving motion.

RS-232C type

Remote Coupler



Drive voltage / current

Supply 24V/1A in wireless and simultaneously communicate between RS-232C interface system with noncontact.

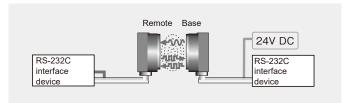
Max.

Distance

10 mm

Remote

RCD11T-211-PU-01



RCD11E-211-PU-02

Page

90

4+4Switch Signal

RS-232C

_' of type code is the cable length. The standard cable length is Remote :1 m, Base :2 m.

Size

90x90

CC-Link

DeviceNet

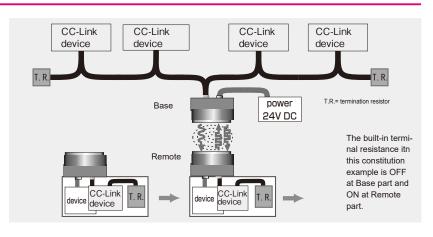
CC-Link type

24V DC / 1A



Terminal box Other unit

Relay the CC-Link data transmission and simultaneously supply 24VDC/2A in wireless.



Type Code

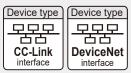
Base

Drive voltage / current	Size	Max.	Туре	Code	Remark	Page
Drive voltage / current		Distance	ce Remote Base		Remark	raye
24V DC / 2A	97x90	5 mm	RCD22T-211-CLC	RCD22E-211-CLC		92





CC-Link interface



Product list

Remote Sensor

Remote Coupler

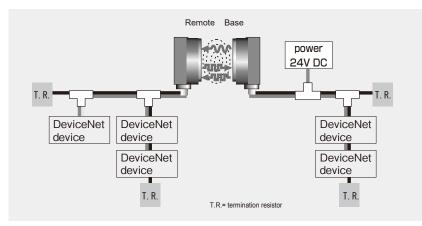
Remote Power Supply

Accessories

DeviceNet type



Inductively relay DeviceNet communication data and simultaneously supply 24VDC/2A



Drive voltage / current	Size	Max. Distance	Type Code Remote Base		Page
24V DC / 2A	97x90		RCD33T-211-DNC	RCD33E-211-DNC	94

Product List

Power Supply System



- Remote system for exclusive use of power supply.
- Possible to attach or detach the power line in the watersplashing condition.

2A Power Supply / Parallel Coupling



24V DC/2A power supply.

As it is face type, approaching both in vertical or horizontal direction is possible.

Electrical device	Remote	Base	
Drive unit			Power supply

Drive voltage / current	Max. Distance	Size	Type Code Remote Base		Page
24V DC / 2A	9mm	90 x 90	RVT-211-22-PU- <u>01</u>	RVE-211-2-PU- <u>02</u>	98

Remote Power Supply

Parallel

Overlap

1A Power Supply / Overlap Coupling



24V DC/1A power supply.
On Ø43 type, screw-in housing can be manually attached or detached

Electrical device	Remote	Base	
Drive unit			Power supply

Drive veltage / everent	Cina	Type Code		
Drive voltage / current	Size	Remote	Base	Page
24V DC / 1A	M30	RVTI-030-21-PU- <u>01</u>	RVEI-030-2-PU- <u>02</u>	100
	φ 43	RVTI-C01-21-PU- <u>01</u>	RVEI-C01-2-PU- <u>02</u>	101

Exclusive Proximity sensor

Terminal box Other unit

Custom Products

	at the end means cable length. The Please specify in the following manner.	standard cable length has been described in meter.
Type Code Example	Remote RVT-211-22-PU-01 Cable length(m) 01=1m 02=2m 03=3m The standard cable length is 1m.	Base RVE-211-2-PU-02 Cable length(m) 02=2m 03=3m 05=5m The standard cable length is 2m.

Power Charging System



Remote System for wireless charging

■ Suitable for battery charging of AGV

Battery

Passive Head

Charging

Active Head

Power supply

Product list

Remote Sensor

Remote Coupler

100V AC 200V AC

103

Remote Power Supply

30V DC/7A Charging / Parallel Coupling



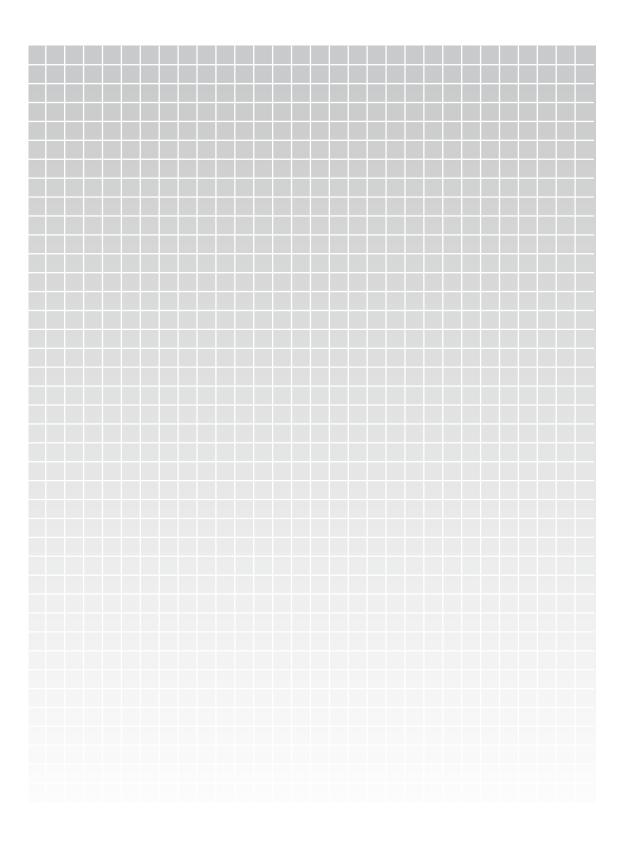
Wireless charging of 210W. As it is face type, approaching both in vertical or horizontal direction is possible.

Output voltage / current	Max.	Type Code				
	Operating	Remote		Base		Page
	distance	Charging unit	Passive Head	Active Head	Power Supply unit	
30V DC / 7A (Output changes by the	10 mm	RCS210-PB24*	RCS240PH*	RCS240AH*	RCS240-AC1*	102

*Use only in japan. CE not acquired.

battery voltage)

Accessories



		DC 3-wire	Regular type	32
		Detector type	Terminal unit type	42
	Switch signal Transmission	DC 2-wire	Regular type	48
		Detector type	Terminal unit type	62
Remote Sensor System		Exclusive detector type		
Oyotom	Analog Signal Transmission	Thermocouple type		
		Resistance thermometer type		
		Load cell type		
		Analog sensor type		

Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire
Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance thermometer type

Load cell type

Analog sensor type



Exclusive sensor

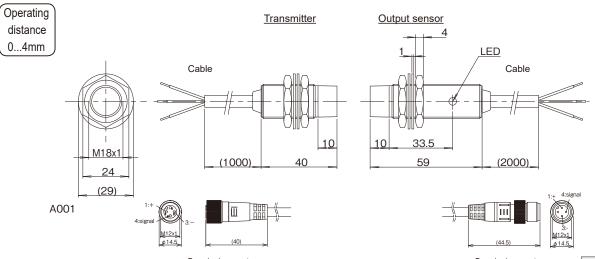
Terminal box Other unit

Wiring

Discontinued plans

Index

for 1 sensor / Size: M18



D	-wired	

Pre-wired connector W

Wiring C001 / P.118

	Transmitter				
		Cable		Pre-wired connector	
Type NPN		RPT-1804N-PU	-01	RPT-1804N-PU-CP0.3	
Code PNP		RPT-1804P-PU	-01	RPT-1804P-PU-CP0.3	
Drive voltage		12V ± 1.5V DC			
Drive current		≦ 30mA			
No. of Input sig	nal	1 signal			
Operating dista	nce	04mm	03mm		02.5mm
Center offset		±3mm	±2.5mm		±2mm
Drive current		≦5mA	≦ 20mA	\	≦ 30mA
Operating tempe	rature				
Protection class	S	IP67			
Cable		PUR / φ 5 , 3x0.34mm ²			
Material Housin	g	Nickel plated brass			
Active	face	Nylon 12			
Weight		Body 45g + Cable 35g x 1m / +Connector cable 30cm 40g			
Anti-weld slag type		Cable		Pre-wired connector	
Type Code	NPN	RPT-TF1804N-PU-01		RPT-TF1804N-PU-CP0.3	
	PNP	RPT-TF1804P-PU-01		RPT-TF1804P-PU-CP0.3	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin			

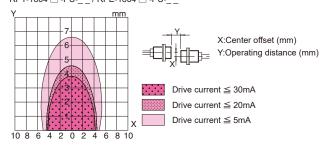
	0		
	Output sensor		
	Cable	Pre-wired connector	
Type NPN	RPE-1804N-PU-02	RPE-1804N-PU-CP0.3	
Code PNP	RPE-1804P-PU-02	RPE-1804P-PU-CP0.3	
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≦ 150mA		
No. of Output signal	1 signal		
Load current	≦ 50mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 60g + Cable 35g x 2m / +Connector cable 30cm 30g		
Anti-weld slag type	Cable	Pre-wired connector	
Type Code NPN	RPE-TF1804N-PU-02	RPE-TF1804N-PU-CP0.3	
PNP	RPE-TF1804P-PU-02	RPE-TF1804P-PU-CP0.3	
		=	

Applicable sensor

Supply voltage	12V DC
Current consumption	≦ 30mA
Residual voltage	≦ 3.5V
Leakage current	

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT-1804 -PU-__ / RPE-1804 -PU-__



Installation notes

■ Surrounding metal

В

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Parallel installation

A C

Type Code	A(mm)	B(mm)	C(mm)
RPT-1804 🗌 -PU	20	15	110
RPE-1804 □ -PU-	20	15	110

Signal type

Switch signal

Sensor type

DC 3-wire

Remote

Sensor

DC 3-wire

Detector type

for max.8 sensors / Size: M30

Transmitter

Detector

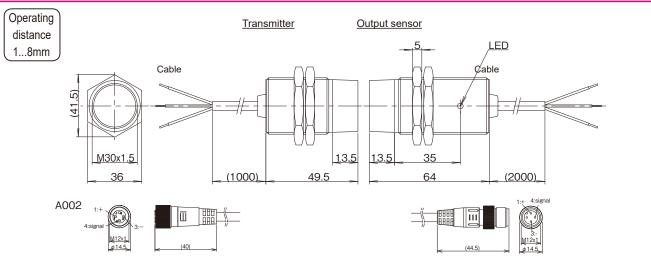
DC 3-wire

Output

sensor

Power supply

& PLC



Туре

NPN

Pre-wired connector

Pre-wired connector

Cable

Output sensor

RPE-3008N-PU-02

Wiring

Pre-wired connector

RPE-3008N-PU-CP0.3

C001 / P.118

Exclusive detector type

	Transmitter				
		Cable		Pre-wir	ed connector
Type N	NPN	RPT-3008N-P	U-01	RPT-3008N-PU-CP0.3	
Code F	PNP	RPT-3008P-P	U-01	RPT-30	08P-PU-CP0.3
Daire college		40V + 4 5V DO			
Drive voltag		12V ± 1.5V DC			
Drive curre	nt	≦ 30mA			
No. of Input	t signal	1 signal			
Operating of	distance	18mm	16mn	n	14.5mm
Center offse	et	±5mm	±4mm		±3mm
Drive current		≦5mA	≦ 20m	A	≦ 30mA
Operating temperature		0+50°C			
Protection of		IP67			
Cable	JI433	PUR / ϕ 5 , 3x0.34mm ²			
	using	Nickel plated brass			
Act	tive face	Nylon 12			
Weight		Body 110g + Cable 35g x 1m / +Connector cable 30cm 40g			
Anti-weld slag type		Cable		Pre-wired connector	
Type Code	NPN	RPT-TF3008N-PU-01		RPT-TF3008N-PU-CP0.3	
	PNP	RPT-TF3008P-PU-01 RPT-TF3008P-PU-CP		3008P-PU-CP0.3	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin			

. , , , ,				
Code	PNP	RPE-3008P-PU-02	RPE-3008P-PU-CP0.3	
Supply vo	Itage	24V DC ±5% (including	ripple)	
Current co	nsumption	≦ 150mA		
No. of Ou	tput signal	1 signal		
Load curr	ent	≦ 50mA		
Frequency	of operation	25Hz		
LED		Signal output indication		
Operating temperature		0+50°C		
Protection class		IP67		
Cable		PUR / φ 5 , 3x0.34mm ²		
Material H	lousing	Nickel plated brass		
A	ctive face	Nylon 12		
Weight		Body 130g + Cable 35g x 2m / +Connector cable 30cm 30g		
Anti-weld slag type		Cable	Pre-wired connector	
Type Cod	e NPN	RPE-TF3008N-PU-02	RPE-TF3008N-PU-CP0.3	
	PNP	RPE-TF3008P-PU-02	RPE-TF3008P-PU-CP0.3	

Applicable sensor

Supply voltage	12V DC
Current consumption	≦ 30mA
Residual voltage	≦ 3.5V
Leakage current	

Please sure to use applicable detector switch according to the specification on left.

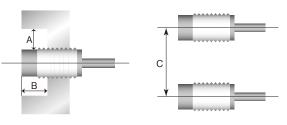
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal

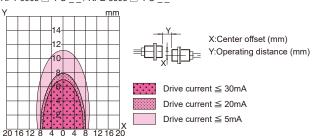
■ Parallel	installation

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin



Type Code	A(mm)	B(mm)	C(mm)
RPT-3008 🗌 -PU	30	20	200
RPE-3008 -PU	30	20	300

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT-3008 -PU-_ / RPE-3008 -PU-_



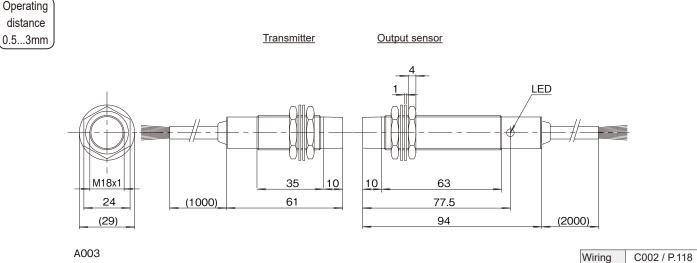
Terminal box Other unit

Remote Sensor System Switch Signal

DC 3-wire Detector type/ Regular type 4 signals transmission



for max.4 sensors / Size: M18



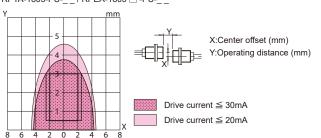
	Transmitter	Output sensor		
Type NPN	DDTA 4000 DU 04	Type NPN RPEA-1803N-PU-02		
Code PNP	RPTA-1803-PU-01	Code PNP RPEA-1803P-PU-02		
Drive voltage	12V ± 1.5V DC	Supply voltage 24V DC ±5% (including ripple)		
Drive current	≦ 30mA	Current consumption ≤ 170mA		
No. of Input signals	4 signals	No. of Output signals 4 signals + 1 signal (Inzone)		
Operating distance	0.53mm 0.53mm	Load current max.50mA per output		
Center offset	±2.5mm ±2mm	Frequency of operation 30Hz		
Drive current	≤ 20mA ≤ 30mA	LED Inzone		
Operating temperature	0+50°C	Operating temperature 0+50°C		
Protection class IP67		Protection class IP67		
Cable	PUR / φ 6.3 , 7x0.3mm ²	Cable PUR / φ 6.3 , 7x0.3mm ²		
Material Housing	Nickel plated brass	Material Housing Nickel plated brass		
Active face Nylon 12		Active face Nylon 12		
Weight	Body 60g + Cable 60g x 1m	Weight Body 90g + Cable 60g x 2m		
Anti-weld slag NPN	RPTA-TF1803-PU-01	Anti-weld slag NPN RPEA-TF1803N-PU-02		
Type Code PNP	KF IA-11 1003-F 0-01	Type Code PNP RPEA-TF1803P-PU-02		
Materia	Housing:Fluorinated resin coated/Active face:Fluorinated re			

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 30mA
Residual voltage	≦ 3.5V
Leakage current	

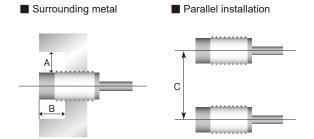
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPTA-1803-PU-__ / RPEA-1803 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RPTA-1803-PU	18	18	110
RPEA-1803 🗌 -PU			

^{*}Total current consumption of all connected sensor.





Transmitter

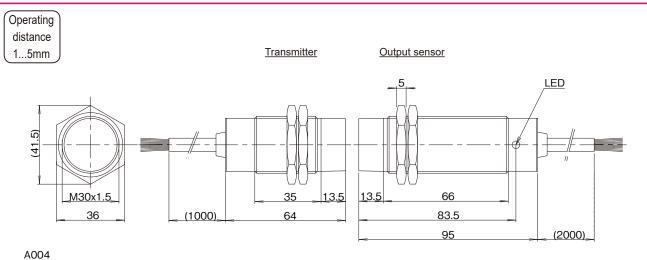
DC 3-wire

Output

sensor

Power supply

& PLC



Wiring C002 / P.118

			Transmi	tter		
Туре	NPN		DDTA 2005 DII 04			
Code	PNP		RPTA-3005-PU-01			
Drive voltage			12V ± 1.5V DC			
Drive curr	ent		<u>≤</u> 40mA			
No. of Inp	ut signa	ls	4 signals			
Operating distance		е	15mm	15mm		
Center offset			±6mm	±3mm		
Drive current			≦ 30mA	≦ 40mA		
0 " 1			050°0			
Operating temperature		ure				
Protection class			IP67			
Cable			PUR / ϕ 6.3 , 7x0.3mm ²			
Material H	ousing		Nickel plated brass			
A	ctive fac	е	Nylon 12			
Weight			Body 130g + Cable 60g x 1m			
A . C 1.1						
Anti-weld s	° — DDTA TE200E DII 01					
Type Code PNP RF1A-1F3003-F0-01						
Material Housing:Fluorinated resin coated/Activ			resin coated/Active fac	ce:Fluorinated resin		

Output sensor					
Type NPN	Type NPN RPEA-3005N-PU-02				
Code PNP		RPEA-3005P-PU-02			
Supply voltage		24V DC ±5% (including ripple)			
Current consum	ption	≦ 150mA			
No. of Output si	gnals	4 signals + 1 signal (Inzone)			
Load current		max.50mA per output			
Frequency of operation		30Hz			
LED		Inzone			
Operating temperature		0+50°C			
Protection class		IP67			
Cable		PUR / φ 6.3 , 7x0.3mm ²			
Material Housing		Nickel plated brass			
Active face		Nylon 12			
Weight		Body 160g + Cable 60g x 2m			
Anti-weld slag	NPN	RPEA-TF3005N-PU-02			
Type Code PNP		RPEA-TF3005P-PU-02			

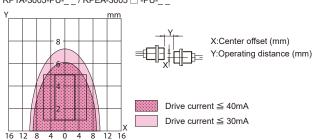
Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 40mA
Residual voltage	≦ 3.5V
Leakage current	

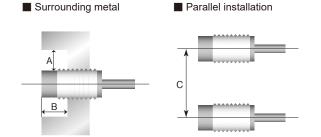
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPTA-3005-PU-__ / RPEA-3005 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RPTA-3005-PU	40	32	300
RPEA-3005 🗌 -PU			





Remote Sensor

DC 3-wire Detector type

DC 3-wire
Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

type

thermometer type

Load cell type

Analog sensor type

Exclusive sensor

Terminal box Other unit

Wiring

Discontinue

Index

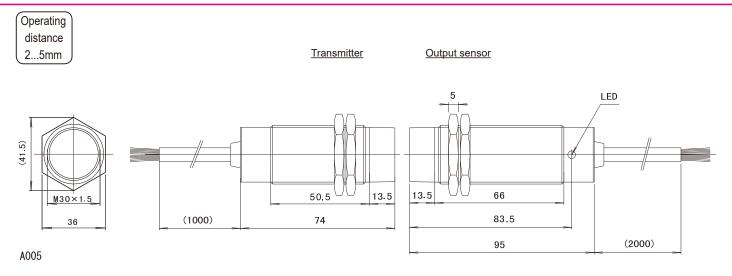
^{*}Total current consumption of all connected sensor.

Remote Sensor System Switch Signal

DC 3-wire Detector type / Regular type 8 signals transmission



for max.8 sensors / Size: M30



Wiring C004 / P.119

+ 9x0.18mm²

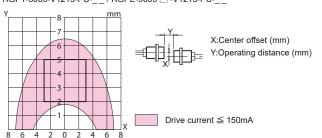
	Transmitter		Output sensor	
Type NPN	DODT 2005 V4045 DU 04	Type NPN	RGPE-3005-V1215N-PU-02	
Code PNP	RGPT-3005-V1215-PU-01	Code PNP	RGPE-3005-V1215P-PU-02	
Drive veltage	12V ± 1.5V DC	Supply voltage	24\/ DC ±100/ (including ripple)	
Drive voltage		Supply voltage	24V DC ±10% (including ripple)	
Drive current	≦ 150mA	Current consumption	≦ 400mA	
No. of Input signals	8 signals	No. of Output signals	8 signals + 1 signal (Inzone)	
Operating distance	25mm	Load current	max.50mA per output	
Center offset	±3mm Frequency of open		60Hz	
Drive current	≦ 150mA	LED	Inzone	
Operating temperature	0+50℃	Operating temperature	0+50°C	
Protection class	IP67	Protection class	IP67	
Cable	PUR / φ 7.7 , 2x0.5mm ² + 9x0.18mm ²	Cable	PUR / ϕ 7.7 , 2x0.5mm ² + 9x0.18	
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass	
Active face	Nylon 12	Active face	Nylon 12	
Weight	Body 150g + Cable75 g × 1m Weight		Body 180g + Cable75 g ×2 m	
Remark		Remark		

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 150mA
Residual voltage	≦ 3.5V
Leakage current	

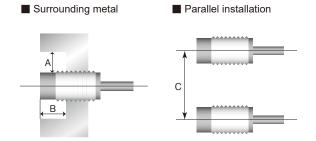
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RGPT-3005-V1215-PU-__ / RGPE-3005 -V1215-PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RGPT-3005-V1215-PU	30	20	200
RGPE-3005-V1215 -PU	30	20	200

^{*}Total current consumption of all connected sensor.

for max.8 sensors / Size: 40 x 80

Transmitter

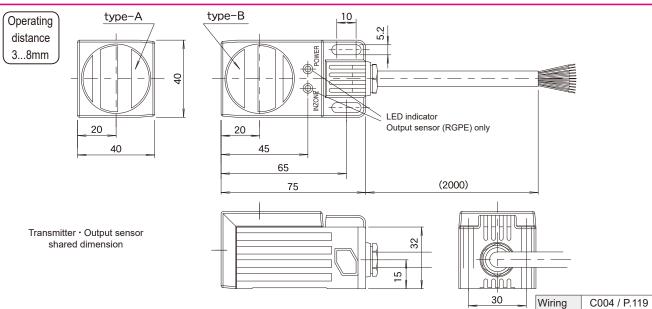
DC 3-wire

Output

sensor

Power supply

& PLC



Transmitter		
Type NPN	RGPT-4008-V1220A/B*-PU-01	
Code PNP	RGP1-4008-V1220A/B"-PU-01	
Drive voltage	12V ± 1.5V DC	
Drive current	≦ 200mA	
No. of Input signals	8 signals	
Operating distance	38mm	
Center offset	±3mm	
Drive current	≦ 200mA	
Operating temperature	0+50°C	
Protection class	IP67	
Cable	PUR / φ 7.7 , 2x0.5mm ² + 9x0.18mm ²	
Material Housing Aluminum (metal part)		
Active face ABS+PBT (resin part)		
Weight	Body 220g + Cable75 g × 1m	
Remark	*Selectable active face A (front) or B (top).	

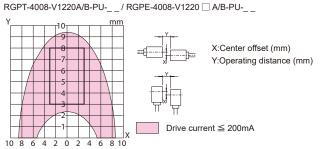
Output sensor		
Type NPN	/pe NPN RGPE-4008-V1220NA/B*-PU-02	
Code PNP	RGPE-4008-V1220PA/B*-PU-02	
0 1 1	041/ D0 +400/ (* 1-1;	
Supply voltage	24V DC ±10% (including ripple)	
Current consumption	≦ 500mA	
No. of Output signals	8 signals + 1 signal (Inzone)	
Load current max.50mA per output		
Frequency of operation 60Hz		
LED	InZone (Yellow) / Power (Green)	
Operating temperature	e 0+50℃	
Protection class IP67		
Cable	PUR / φ 7.7 , 2x0.5mm ² + 9x0.18mm ²	
Material Housing	Aluminum (metal part)	
Active face	ABS+PBT (resin part)	
Weight	Body 220g + Cable75 g ×2 m	
Remark	*Selectable active face A (front) or B (top).	

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 200mA
Residual voltage	≦ 3.5V
Leakage current	

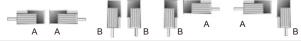
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)



Combination between RGPT-4008 and RGPE-4008

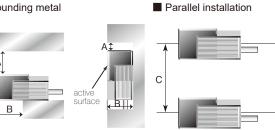
Refer to the followings for the combination of active faceA and B



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal



Type Code	A(mm)	B(mm)	C(mm)
RGPT-4008-V1220A/B-PU	40	40	300
RGPE-4008-V1220	40	40	300

Signal type Switch signal Sensor type DC 3-wire

Remote Sensor

DC 3-wire Detector type

Wiring

Discontinued plans

^{*}Total current consumption of all connected sensor.

Remote Sensor System Switch Signal

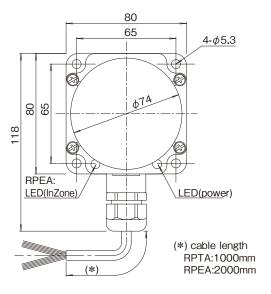
DC 3-wire Detector type / Regular type 8 signals transmission

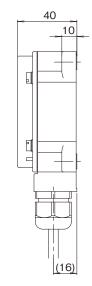


for max.8 sensors / Size: 80 x 80



Transmitter • Output sensor shared dimension





Wiring C003 / P.118

Transmitter			
Type NPN	RPTA-8015-PU-01		
Code PNP			
Drive voltage	12V ± 1.5V DC		
Drive current	≦ 100mA		
No. of Input signals	8 signals		
Operating distance	222mm	415mm	
Center offset	±12mm	±10mm	
Drive current	≦ 50mA	≦ 100mA	
Operating temperature 0+50°C			
Protection class	IP67		
Cable	PUR / ϕ 7.9 , 12x0.18mm ²		
Material Housing	Nylon		
Active face	Nylon		
Weight	Body 440g + Cable80 g × 1m		
Remark			

A007

	Output sensor		
Type NPN	IPN RPEA-8015N-PU-02		
Code PNP	RPEA-8015P-PU-02		
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≦ 300mA		
No. of Output signals	8 signals + 1 signal (Inzone)		
Load current max.50mA per output			
Frequency of operation 30Hz			
LED	InZone (Yellow) / Power (Green)		
Operating temperature			
Protection class	IP67		
Cable	PUR / φ 7.9 , 12x0.18mm ²		
Material Housing	Nylon		
Active face	Nylon		
Weight	Body 440g + Cable80 g × 2 m		
Remark			

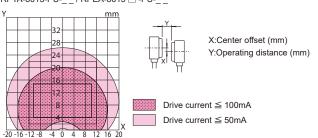
Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 100mA
Residual voltage	≦ 3.5V
Leakage current	

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RPTA-8015-PU-__/RPEA-8015 □ -PU-__

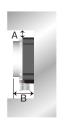


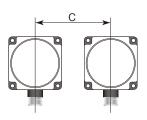
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal







Type Code	A(mm)	B(mm)	C(mm)
RPTA-8015-PU	20	40	200
RPEA-8015 🗌 -PU	20	40	200

^{*}Total current consumption of all connected sensor.

Signal type

Switch signal

Sensor type

for max.8 sensors / Size: 90 x 90

Transmitter

Output

sensor

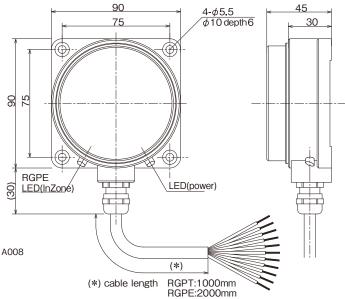
Power supply

& PLC



DC 3-wire

Transmitter · Output sensor shared dimension



	DC 3-wire
L	DC 3-WIIE
F	Remote

Sensor

DC 3-wire Detector type

C004 / P.119

Wiring

	(*) cable lengti		
	Transmitter		
Type NPN	RGPT-9012-V2430-PU-01		
Code PNP	KGF1-9012-V2430-F0-01		
Drive voltage	24V ± 1.5V DC		
Drive current	≦ 300mA		
No. of Input signals	8 signals		
Operating distance	412mm		
Center offset	±7mm		
Drive current	≦ 300mA		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 7.7 , 2x0.5mm ² + 9x0.18mm ²		
Material Housing	Aluminum + alumite processing (metal part)		
Active face	ABS+PBT (resin part)		
Weight	Body 650g + Cable80 g × 1 m		
Remark	The AC 2-wire sensor can be connected by the		

interchange conversion amplifier unit (P.114).

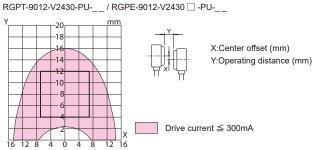
Output sensor		
Type NPN	RGPE-9012-V2430N-PU-02	
Code PNP	RGPE-9012-V2430P-PU-02	
Supply voltage	24V DC ±10% (including ripple)	
Current consumption	≦ 1A	
No. of Output signals	8 signals + 1 signal (Inzone)	
Load current	max.50mA per output	
Frequency of operation	60Hz	
LED	InZone (Yellow) / Power (Green)	
Operating temperature	0+50°C	
Protection class	IP67	
Cable	PUR / ϕ 7.7 , 2x0.5mm ² + 9x0.18mm ²	
Material Housing	Aluminum + alumite processing (metal part)	
Active face	ABS+PBT (resin part)	
Weight	Body 650g + Cable80 g × 2 m	
Remark		

Applicable sensor

Supply voltage	24V DC
Total current consumption*	≦ 300mA
Residual voltage	≦6V
Leakage current	

Please sure to use applicable detector switch according to the specification on left.

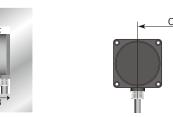
Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal



-	C

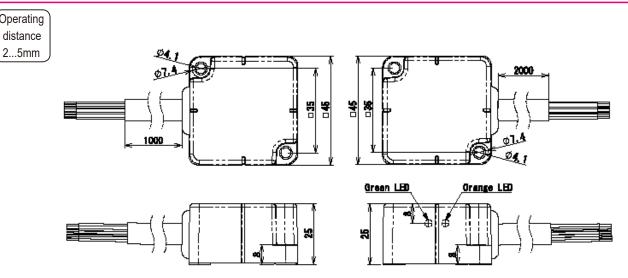
■ Parallel installation

Wiring

Type Code	A(mm)	B(mm)	C(mm)
RGPT-9012-V2430-PU	50	45	300
RGPE-9012-V2430 🗌 -PU	50	45	300

^{*}Total current consumption of all connected sensor.

for max.12 sensors / Size: 45 x 45



			Wiring C028 / P.120		
	Transmitter	Output sensor			
Type DC 3-wire	RS12T-422-PU-01	Туре <u>NPN</u>	RS12E-422N-PU-02		
code	110121 4221 0 01	code PNP	RS12E-422P-PU-02		
Drive voltage	12V ± 1.5V DC	Operating voltage	24V DC ± 10% (incl.ripple)		
Drive current	≦ 230 mA	Current consumption	≦ 600mA		
No. of Input signals	12 signals	No. of output signal	12 signals		
Operating distance	25mm	Load current	max.50mA (1 signal.)		
Center offset	\pm 3mm	Frequency of operation	60Hz		
Drive current	230 mA	LED	Status LED (Green) , Output LED (Orange)		
Operating temperature	0+50°C	Operating temperature	0+50°C		
Protection class	IP67	Protection class	IP67		
Cable	PUR / ϕ 8.6 , 2x0.5mm ² + 13+x0.18mm ²	Cable	PUR / ϕ 8.6 , 2x0.5mm ² + 13+x0.18mm ²		
Material Housing	ABS	Material Housing	ABS		
Weight	Body 75 g + Cable 105 g x 1m	Weight	Body 80 g + Cable 105 g x 2m		
Remark		Remark			

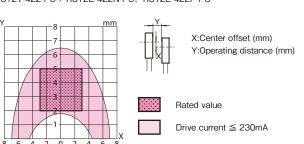
If you use a DC-2 wire sensor, wire through a 1 to 2 K $\!\Omega$ resistance.

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 230 mA
Residual voltage	≦ 3.5V
Load current	

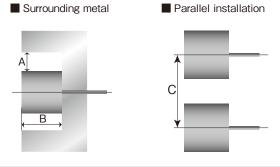
Use detection sensors which meet conditions in the left table.

Typical Transmitting Diagram (Supply voltage at 24V /non-flush mount) RS12T-422-PU / RS12E-422N-PU、RS12E-422P-PU



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, provide the minimum free zone as described below.



A*	В	С	
30	23	250	
			(mm)

^{*} When you install it, a metal can have contact with one side of the body except for the sensing surface.

^{*}Total consumption current of connected sensors.

Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple

Resistance thermometer type

oad cell type

Analog sensor type

Exclusive sensor

Terminal box Other unit

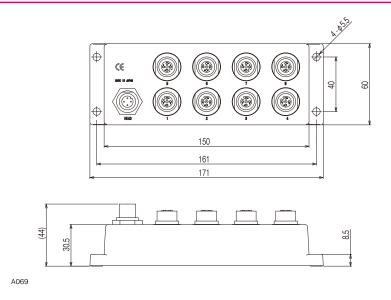
Wiring

Discontinue

Remote Sensor System Switch Signal

DC 3-wire Detector type / Terminal unit type 8 signals transmission





This dimensional drawing shows connector type 1.

Willing C025 / P. 124	Wiring	C025 / P.124
-------------------------	--------	--------------

	Transmitter / Remote terminal
Type Connector type 1	RS8TA-222P-S04
Code Connector type 2	RS8T-222P-S04
Sensor type	DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage 12V DC ± 10%	
Drive current 150mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)	
Operating temperature	0+50°C
Protection class IP67	
Connection sensor	Connector M12 (Female) x 8
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS
Weight	600 g
Remark	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 150mA
Residual voltage	≦ 3.5V
Leakage current	

Please sure to use applicable detector switch according to the specification on left.

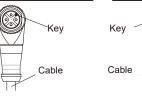
^{*}Total current consumption of all connected sensor.

	,	
Pin assigned of		1:+
connector for	16000	2:
	4(0 0)2	3:-
sensors	3	4 : SI

Applicable angle connector type (Detector's connector)

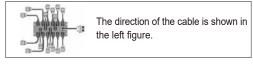
When using an angle connector, please use a connector of which key is positioned same as the following figure.

1 :Applicable to RS8TA-222_





2:Applicable to RS8T-222_



The straight connector can be used to both type of Remote Terminal.

Signal type

Switch signal

Sensor type

DC 3-wire

Remote Sensor

DC 3-wire

Terminal unit

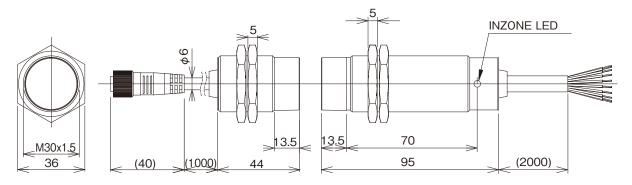
DC 2-wire Terminal unit

for max. 8 sensors Terminal unit type / Size : M30



Transmitting head

Output sensor



A057

Wiring	C025 / P.124

	Tra	ansmitter / Transmitting head	
Type cor Code Remote T	nect to erminal	RSH8T-030-PU-CP1.0	
Drive voltage		22V ± 1.5V DC	
Drive current		120mA	
Remote terminal		RS8TA-222 -S04、RS8T-222 -S04	
Operating distance		28mm	
Center offset		±3mm	
Drive current		120mA	
Operating temperature		0+50°C	
Protection class		IP67	
Cable		M12 connector Cable (1m、3m、5m)	
Material Housin	ıg	Nickel plated brass	
Active face		Nylon 12	
Weight		Body 120 g + Cable50 g × 1 m	
Anti-weld slag Type Code	connect to Remote Terminal	RSH8T-TF030-PU-CP1.0	
· .	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

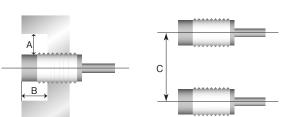
Output sensor			
Type NPN		RSH8E-030N-PU-02	
Code PNP		RSH8E-030P-PU-02	
Supply voltage		24V DC ±10% (including ripple)	
Current consump	otion	≦ 500mA	
No. of Output si	ignals	8 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of operation		20Hz	
LED		Inzone	
Operating tempe	rature	0+50°C	
Protection class	s	IP67	
Cable		PUR/ φ 7.7、2x0.5mm ² +9x0.18mm ²	
Material Housin	g	Nickel plated brass	
Active face		Nylon 12	
Weight		Body 160 g + Cable75 g × 2 m	
Anti-weld slag	NPN	RSH8E-TF030N-PU-02	
Type Code	PNP	RSH8E-TF030P-PU-02	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal

ation



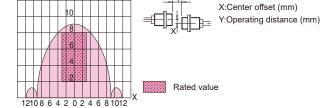
Type Code	A(mm)	B(mm)	C(mm)
RSH8T-030-PU-CP	20	20	160
RSH8E-030 🗆 -PU	30	30	160

Terminal box

Wiring

Discontinue

Index

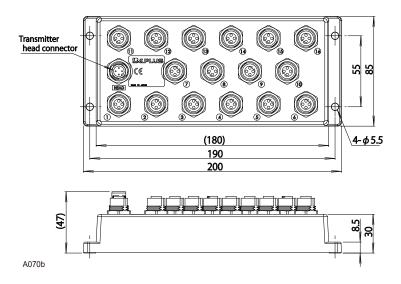


Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RSH8T-030-PU-CP__/ RSH8E-030 🗆 -PU-__



for max. 16 sensors Terminal unit type / Remote Terminal



This dimensional drawing shows connector type 1.

Wiring	C026 / P124

	Transmitter / Remote terminal
Type Connector type 1	RS16TA-211P-S04
Code Connector type 2	RS16T-211P-S04
Sensor type	DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage	12V DC ± 10%
Drive current	150mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)
Operating temperature	0+50°C
Protection class	IP67
Connection sensor	Connector M12 (Female) x 16
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS(GF40%)
Weight	1000 g
Remark	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≦ 150mA
Residual voltage	≦ 3.5V
Leakage current	

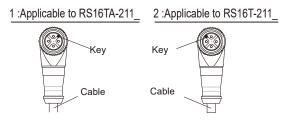
detector switch according to the specification on left.

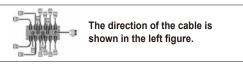
Please sure to use applicable

^{*}Total current consumption of all connected sensor.

Applicable angle connector type (Detector's connector)

When using an angle connector, please use a connector of which key is positioned same as the following figure.



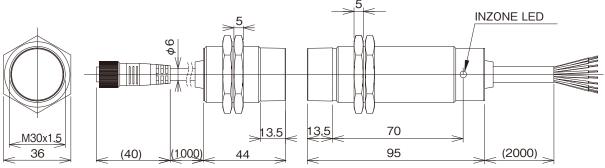


The straight connector can be used to both type of Remote Terminal.

for max. 16 sensors Terminal unit type / Size : M30

Operating distance 2...8mm

<u>Transmitting head</u> <u>Output sensor</u>



A057

Wiring	C026 / P.124
--------	--------------

Transmitter / Transmitting head		
Type connect to12 V Code Remote Terminal	RSH16T-030-PU-CP1.0	
Drive voltage	22V ± 1.5V DC	
Drive current	120mA	
Remote terminal	RS16TA-211 -S04、RS16T-211 -S04	
Operating distance	28mm	
Center offset	±3mm	
Drive current	120mA	
Operating temperature		
Protection class	IP67	
Cable	M12 connector Cable (1m、3m、5m)	
Material Housing	Nickel plated brass	
Active face	Nylon 12	
Weight	Body 120 g + Cable50 g × 1 m	
Anti-weld slag Type Code connect to Remote Terminal	RSH16T-TF030-PU-CP1.0	

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Output sensor		
Type NPN RSH16E-030N-PU-02		
Code PNP	RSH16E-030P-PU-02	
Supply voltage	24V DC ±10% (including ripple)	
Current consumption	≦ 500mA	
No. of Output signals	16 signals + 1 signal (Inzone)	
Load current	max.50mA per output	
Frequency of operation	20Hz	
LED	Inzone	
Operating temperature	0+50°C	
Protection class	IP67	
Cable PUR/ φ 8.5、2x0.5mm ² +17x0.18mm ²)		
Material Housing	Nickel plated brass	
Active face	Nylon 12	
Weight	Body 160 g + Cable110 g × 2 m	
Anti-weld slag NPN	RSH16E-TF030N-PU-02	
Type Code PNP	RSH16E-TF030P-PU-02	

Installation notes

В

■ Surrounding metal

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

■ Parallel installation

RSH16T-030-PU-C	P/RSH16E	-030 🗆 -PU	
Y 12 10 10 8 8 66 44	mm	─	:Center offset (mm) :Operating distance (mm)
	x	Rated value	
12108 6 4 2 0 2	24 6 8 1012 X	X [_	Operating distance (min)

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

Type Code	A(mm)	B(mm)	C(mm)
RSH16T-030-PU-CP	20	20	160
RSH16E-030 □ -PU-	30	30	160

С

Signal type
Switch signal
Sensor type
DC 3-wire

Remote Sensor

DC 3-wire
Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance hermometer type

Load cell type

Analog sensor type

Exclusive sensor

Terminal box Other unit

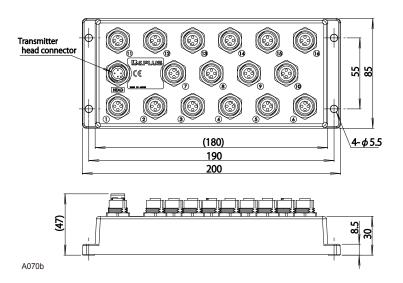
Wiring

Discontinue

Remote Sensor System Switch Signal

DC 3-wire Detector type / Terminal unit type
16 signals transmission 24V DC





This dimensional drawing shows connector type 1.

Wiring C026 / P.124

	Transmitter / Remote terminal
Type Connector type 1	RS16TB-211P-S04
Code Connector type 2	
Sensor type	DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage	24V ± 1.5V DC
Drive current	150mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)
Operating temperature	0+50°C
Protection class	IP67
Connection sensor	Connector M12 (Female) x 16
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS(GF40%)
Weight	1000 g
Included	Ferrite core clamp
Remark	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

	Supply voltage	24V DC
Total current consumption*		≦ 550mA
	Residual voltage	≦ 6V
	Leakage current	

^{*}Total current consumption of all connected sensor.

Pin assigned of	I
connector for	
sensors	

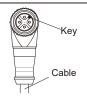


1:+ 2: 3:- Please sure to use applicable detector switch according to the specification on left.

Applicable angle connector type (Detector's connector)

When using an angle connector, please use a connector of which key is positioned same as the following figure.

1 :Applicable to RS16TA-211_

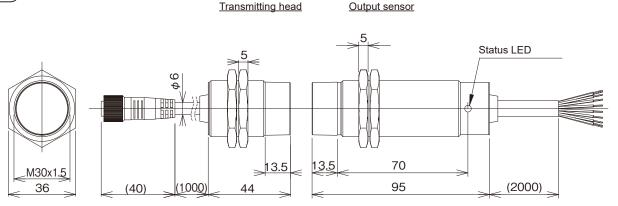




The direction of the cable is shown in he left figure.

for max. 16 sensors Terminal unit type / Size : M30





A057

	Transmitter / Transmitting head				
Type Code	connect to 24V Remote Terminal	RSH16TB-030-PU-CP1.0			
Remote terminal		RS16TB-211P-S04			
Operating distance		05mm	25mm		
Center offset		±2.5mm	±2.5mm		
Drive current*		≦ 300mA	≦ 550mA		
Operating temperature		0+50°C			
Protection class		IP67			
Cable		M12 connector Cable (1m、3m、5m)			
Material Housing		Nickel plated brass			
	Active face	Nylon 12			
Weight		Body 120 g + Cable 50 g			
Remark					

* The total amount of current supplied to sensors from Remote Terminal.

The drive current is affected by transmission distance and center offset. (Refer to the following figure)

Output sensor			
Туре			
Code PNP	RSH16EB-030P-PU-02		
Supply voltage	24V DC ±10% (including ripple)		
Current consumption	≦ 1A		
No. of Output signals	16 signals + 1 signal (Inzone)		
Load current	max.50mA per output		
Frequency of operation	20Hz		
Start-up time	≦ 2 sec.		
LED	Inzone, Outzone, Over heat, Short		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR/ φ 8.6、2x0.5mm ² +17x0.18mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 160 g + Cable110 g × 2 m		
Remark			

Wiring

C026 / P.124

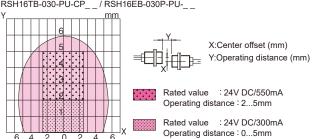
Installation notes

■ Surrounding metal

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

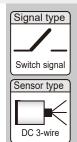
■ Parallel installation

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RSH16TB-030-PU-CP__ / RSH16EB-030P-PU-__



A)	C
	Y

Type Code	A(mm)	B(mm)	C(mm)
RSH16TB-030-PU-CP	40	32	160
RSH16EB-030P-PU	40	32	100



Remote Sensor

DC 3-wire
Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance hermometer type

_oad cell type

Analog sensor type

Exclusive sensor

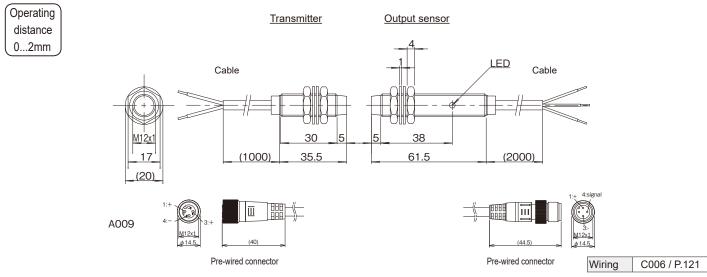
Other unit

Wiring

Discontinue

Inde

for 1 sensor / Size : M12



——————————————————————————————————————				
	Transmitter	l=		
	Cable	Pre-wired connector		
Type DC 2-wire	RPT-1202D-PU-01	RPT-1202D-PU-CP0.3		
Code				
Drive voltage	12V ± 1.5V DC			
Drive current	5mA			
No. of Input signals	1 signal			
Operating distance	02mm			
Center offset	±1mm			
Drive current	5mA			
Operating temperature	0+50°C			
Protection class	IP67			
Cable	PUR / φ 5 , 2x0.34mm ²			
Material Housing	Nickel plated brass			
Active face Nylon 12				
Weight	Body 30 g + Cable 25 g x 1m / +Connector cable 30cm 30g			
Remark				

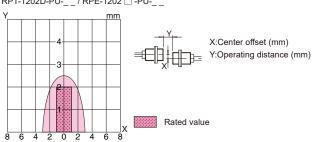
	Output sensor		
	Cable	Pre-wired connector	
Type NPN	RPE-1202N-PU-02	RPE-1202N-PU-CP0.3	
Code PNP	RPE-1202P-PU-02	RPE-1202P-PU-CP0.3	
Supply voltage	24V DC ±10% (including ripple)		
Current consumption	≦ 70mA	··	
No. of Output signal	1 signal		
Load current	≦ 50mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face Nylon 12			
Weight	Body 40 g + Cable 35 g x 2m / +Connector cable 30cm 30g		
Remark			

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT-1202D-PU-_ / RPE-1202 □ -PU-_ □



Installation notes

■ Surrounding metal

В

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Parallel installation

A C

Type Code	A(mm)	B(mm)	C(mm)
RPT-1202D-PU	10	10	100
RPE-1202 □ -PU-	12	12	100

Transmitter

Detector

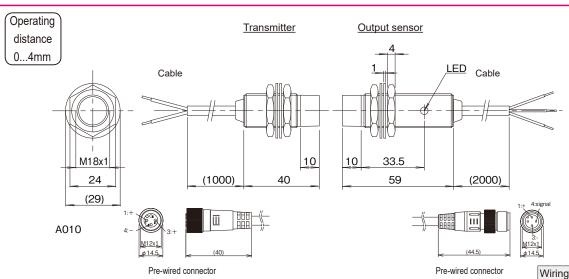
DC 2-wire

Output

sensor

Power supply

& PLC



1 to-wired confliction				
Transmitter				
		Cable	Pre-wired connector	
Type DC 2	2-wire	RPT-1804D-PU-01	RPT-1804D-PU-CP0.3	
Drive voltage		12V ± 1.5V DC		
Drive current		5mA		
No. of Input sig	nals	1 signal		
Operating dista	nce	04mm		
Center offset		±3mm		
Drive current		5mA		
Operating temperature		0+50°C		
Protection class		IP67		
Cable		PUR / φ 5 , 2x0.34mm ²		
Material Housing		Nickel plated brass		
Active face		Nylon 12		
Weight		Body 45g + Cable 35g x 1m / +Connector cable 30cm 30g		
Anti-weld slag type		Cable	Pre-wired connector	
Type Code	DC2- wire	RPT-TF1804D-PU-01	RPT-TF1804D-PU-CP0.3	
Material		Housing:Fluorinated resin coate	ed/Active face:Fluorinated resin	

Output sensor			
	Cable	Pre-wired connector	
Type NPN	RPE-1804N-PU-02	RPE-1804N-PU-CP0.3	
Code PNP	RPE-1804P-PU-02	RPE-1804P-PU-CP0.3	
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≦ 150mA		
No. of Output signal	1 signal		
Load current	≦ 50mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 60g + Cable 35g x 2m / +Connector cable 30cm 30g		
Anti-weld slag type	Cable	Pre-wired connector	
Type Code NPN	RPE-TF1804N-PU-02	RPE-TF1804N-PU-CP0.3	

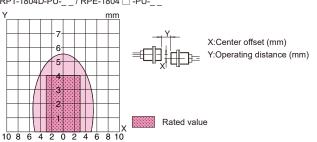
Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦5mA
Leakage current	≦1mA

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RPT-1804D-PU-__ / RPE-1804 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

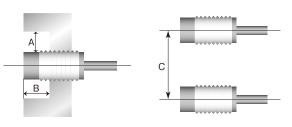
RPE-TF1804P-PU-02

Surrounding metal

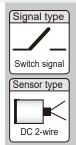
■ Parallel installation

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

RPE-TF1804P-PU-CP0.3



Type Code	A(mm)	B(mm)	C(mm)
RPT-1804D-PU	20	15	110
RPE-1804 -PU	20	15	110



Remote Sensor

DC 3-wire Detector type

C006 / P.121

Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

detector type

type

Resistance hermometer type

Load cell type

Analog sensor type

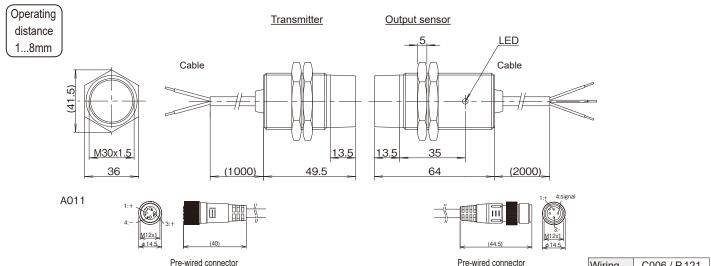
Exclusive sensor

Other unit

Wiring

Discontinued plans

for 1 sensor / Size: M30



Transmitter					
	Cable	Pre-wired connector			
Type DC 2-wire	RPT-3008D-PU-01	RPT-3008D-PU-CP0.3			
Drive voltage	12V ± 1.5V DC	5			
Drive current	5mA				
No. of Input signals	1 signal	N			
Operating distance	18mm				
Center offset	±5mm				
Drive current	5mA				
Operating temperature	0+50°C				
Protection class	IP67				
Cable	PUR / φ 5 , 2x0.34mm ²				
Material Housing	Material Housing Nickel plated brass				
Active face	Active face Nylon 12				
Weight	Neight Body 110g + Cable 25g x 1m / +Connector cable 30cm 30g				

Fie-wired conflection				Wiring C006 / P.121				
Transmitter			Output sensor					
	Cable	Pre-wired connector				Cable	Pre-wired connector	
	RPT-3008D-PU-01	RPT-3008D-PU-CP0.3	Туре	NPN		RPE-3008N-PU-02	RPE-3008N-PU-CP0.3	
_	KF1-3000D-F0-01	KF1-3000D-FU-CF0.3	Code	PNP		RPE-3008P-PU-02	RPE-3008P-PU-CP0.3	
	12V ± 1.5V DC		Supply voltage			24V DC ±5% (including ripple)		
	5mA		Current	t consum	ption	≦ 150mA		
	1 signal		No. of	Output s	ignal	1 signal		
	18mm		Load c	urrent		≦ 50mA		
	±5mm		Frequency of operation		ration	25Hz		
5mA		LED	LED Signal output indication					
;	0+50°C		Operati	Operating temperature 0+50°C				
	IP67		Protection class		3	IP67		
	PUR / φ 5 , 2x0.34mm ²		Cable			PUR / φ 5 , 3x0.34mm ²		
	Nickel plated brass		Materia	Material Housing Nickel plated brass				
	Nylon 12			Active face Nylon 12				
	Body 110g + Cable 25g x 1m / +	Connector cable 30cm 30g	Weight Body 130g + Cable 35g x 2m / +Connector ca		Connector cable 30cm 30g			
	Cable	Pre-wired connector	Anti-we	eld slag t	уре	Cable	Pre-wired connector	
-	DDT TESOSOD DU 04	DDT TESSOOD DIL CDG S	Type C			RPE-TF3008N-PU-02	RPE-TF3008N-PU-CP0.3	
,	RPT-TF3008D-PU-01	RPT-TF3008D-PU-CP0.3			PNP	RPE-TF3008P-PU-02	RPE-TF3008P-PU-CP0.3	
l	Housing:Fluorinated resin coat	ed/Active face:Fluorinated resin			Material	Housing:Fluorinated resin coat	ted/Active face:Fluorinated resin	

Applicable sensor

Anti-weld slag type

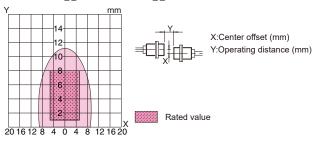
Type Code

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

wire

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT-3008D-PU-__/RPE-3008 -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal ■ Parallel installation В

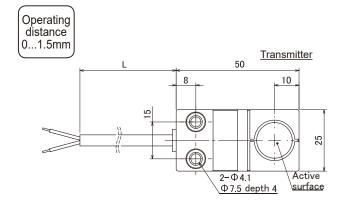
Type Code	A(mm)	B(mm)	C(mm)
RPT-3008D-PU	20	20	200
RPE-3008 -PU	30	20	300

for 1 sensor / Size: 50 x 25 x 10

Transmitte

Detector

DC 2-wire

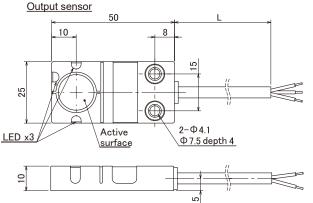


Output

sensor

Power supply

& PLC



Wiring C006 / P.121

A071	

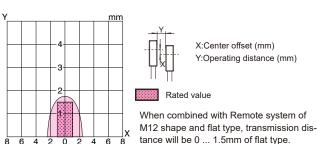
Transmitter				
Type DC 2-wire	RPT-F0D-PU-01			
Drive voltage	12V ± 1.5V DC			
Drive current	5mA			
No. of Input signal	1 signal			
Operating distance	01.5mm			
Center offset	±1mm			
Drive current	5mA			
Operating temperature	0+50℃			
Protection class	IP67			
Cable	PUR / φ 4.5 , 2x0.34mm ²			
Material Housing	ABS			
Rear face	Aluminum			
Weight	Body 20 g + Cable 30 g x 1m			
Remark				

	Output sensor				
Type NPN	RPE-F0N-PU-02				
Code PNP	RPE-F0P-PU-02				
Supply voltage	24V DC ±10% (including ripple)				
Current consumption	≦ 70mA				
No. of Output signal	1 signal				
Load current	≦ 50mA				
Frequency of operation	25Hz				
LED	Signal output indication				
Operating temperature	0+50°C				
Protection class	IP67				
Cable	PUR / φ 4.5 , 3x0.34mm ²				
Material Housing	ABS				
Rear face	Aluminum				
Weight	Body 20 g + Cable 30 g x 2m				
Remark					

Applicable sensor

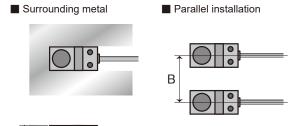
Supply voltage	12V DC	Please sure to use applicable
Residual voltage	≦ 3.5V	detector switch according to the specification on left.
Minimum load current	≦5mA	- opositioation of fort.
Leakage current	≦1mA	_

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT-F0D-PU- / RPE-F0 □ -PU-



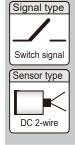
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



3 sides with the exception of the mouth side metal Up to flush with the surface removed transmission cable. However, you must open the port side eject cable.

Type Code	A(mm)	B(mm)	
RPT-F0D-PU	10	100	
RPE-F0 -PU	10	100	



Remote Sensor

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

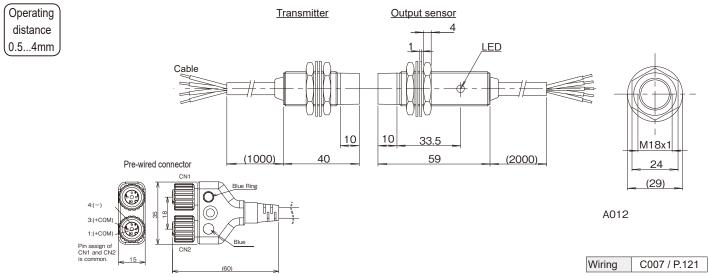
Exclusive detector typ

Terminal box Other unit

Wiring



for 2 sensors / Size: M18



		Transmitter		
		Cable	Pre-wired connector	
Type Code DC	2-wire	RPT2-1804D-PU-01	RPT2-1804D-CP0.3	
Drive voltage		12V ± 1.5V DC		
Drive current		5mA per sensor		
No. of Input si	gnals	2 signals		
Operating dist	ance	0.54mm		
Center offset		±2.5mm		
Drive current		5mA		
Operating temperature		0+50°C		
Protection class	SS	IP67		
Cable		PUR / φ 6 , 4x0.5mm ² PVC / φ 6		
Material Hou	sing	Nickel plated brass		
Active face		Nylon 12		
Weight		Body 50g + Cable 50g x 1m / +Connector cable 30cm 80g		
Anti-weld slag		Cable	Pre-wired connector	
ŭ	DC2-wire	RPT2-TF1804D-PU-01	RPT2-TF1804D-CP0.3	
Type Code Ouz-wre		Housing:Fluorinated resin coated/Active face:Fluorinated resin		

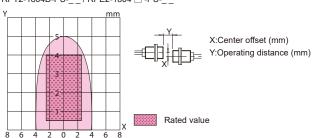
		Wiring C007 / P.121			
	Output sensor				
Type NPN		RPE2-1804N-PU-02			
Code PNP		RPE2-1804P-PU-02			
Supply voltage		24V DC ±10% (including ripple)			
Current consun		0 11			
No. of Output s	signals	2 signals + 1 signal (Inzone)			
Load current		max.50mA per output			
Frequency of op	eration	25Hz			
LED		Inzone			
Operating temperating	erature	0+50°C			
Protection clas	SS	IP67			
Cable		PUR / φ 6.4 , 5x0.5mm ²			
Material Housin	ng	Nickel plated brass			
Active face		Nylon 12			
Weight		Body 60 g + Cable60 g × 2 m			
Anti-weld slag	NPN	RPE2-TF1804N-PU-02			
Type Code	PNP	RPE2-TF1804P-PU-02			
.,,	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin			

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

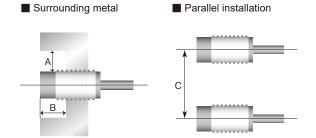
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT2-1804D-PU-__ / RPE2-1804 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



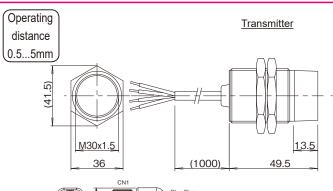
Type Code	A(mm)	B(mm)	C(mm)
RPT2-1804D-PU	20	15	110
RPE2-1804 🗌 -PU	20	15	110

Detector

Detector

for 2 sensors / Size: M30

Transmitter

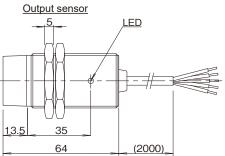


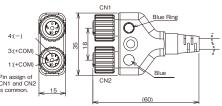
Power supply

& PLC

Output

sensor





Wiring	C007 / P.121
--------	--------------

Transmitter				
		Cable	Pre-wired connector	
Type Code DC 2	-wire	RPT2-3005D-PU-01	RPT2-3005D-CP0.3	
Drive voltage		12V ± 1.5V DC		
Drive current		5mA per sensor		
No. of Input sign	nals	2 signals		
Operating distar	nce	0.55mm		
Center offset		±5mm		
Drive current		5mA		
Operating temperature		0+50°C		
Protection class	5	IP67		
Cable		$\frac{\text{PUR} / \phi 6, 4\text{x}0.5\text{mm}^2}{\text{Nickel plated beauty}} \frac{\text{PVC} / \phi 6}{\text{PVC}}$		
Material Housing		Nickel plated brass		
Active face		Nylon 12		
Weight		Body 110g + Cable 50g x 1m / +Connector cable 30cm 80g		
Anti-weld slag		Cable	Pre-wired connector	
Type Code	DC2-wire	RPT2-TF3005D-PU-01	RPT2-TF3005D-CP0.3	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin		

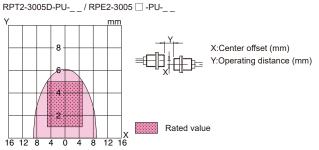
	Output sensor		
Type NPN		RPE2-3005N-PU-02	
Code PNP		RPE2-3005P-PU-02	
Supply voltage		24V DC ±10% (including ripple)	
Current consum	ption		
No. of Output s	ignals	2 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of ope	eration	25Hz	
LED		Inzone	
Operating temperature		0+50℃	
Protection class		IP67	
Cable		PUR / φ 6.4 , 5x0.5mm ²	
Material Housin	g	Nickel plated brass	
Active face		Nylon 12	
Weight		Body 130 g + Cable60 g × 2 m	
Anti-weld slag	NPN	RPE2-TF3005N-PU-02	
Type Code	PNP	RPE2-TF3005P-PU-02	

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦5mA
Leakage current	≦ 1mA

Please sure to use applicable detector switch according to the specification on left.

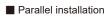
Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)



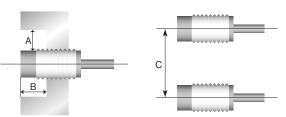
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

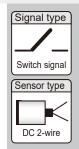
Surrounding metal



Material Housing:Fluorinated resin coated/Active face:Fluorinated resin



Type Code	A(mm)	B(mm)	C(mm)
RPT2-3005D-PU	30	20	200
RPE2-3005 -PU	30	20	300



Remote Sensor

DC 3-wire
Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

type Posistance

inermometer type

analog sensor

type

Exclusive sensor

Other unit

Wiring

Discontinue

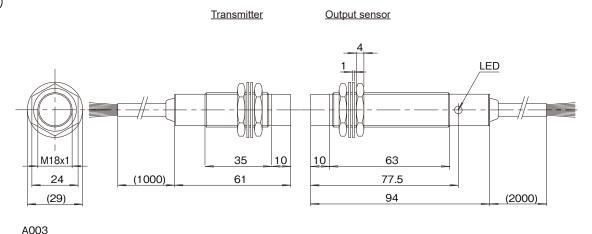
Remote Sensor System Switch Signal

DC 2-wire Detector type / Regular type 4 signals transmission



for max. 4 sensors / Size: M18

Operating distance 0.5...3mm



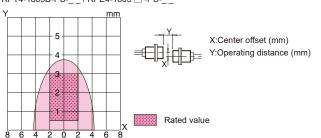
C008 / P.121 Wiring Transmitter Output sensor NPN RPE4-1803N-PU-02 Туре Туре DC 2-wire RPT4-1803D-PU-01 Code PNP RPE4-1803P-PU-02 Code Drive voltage 12V ± 1.5V DC 24V DC ±5% (including ripple) Supply voltage Drive current 5mA per sensor Current consumption ≤ 170mA No. of Input signals 4 signals No. of Output signals 4 signals + 1 signal (Inzone) Operating distance 0.5...3mm max.50mA per output Load current Center offset ±2mm Frequency of operation 30Hz Drive current 5mA LED Inzone Operating temperature 0...+50°C 0...+50°C Operating temperature Protection class Protection class IP67 Cable PUR / ϕ 6.3, 7x0.3mm² Cable PUR / ϕ 6.3, 7x0.3mm² Material Housing Nickel plated brass Material Housing Nickel plated brass Active face Nylon 12 Active face Nylon 12 Body 60 g + Cable60 g × 1 m Weight Weight Body 80 g + Cable60 g × 2 m Anti-weld slag Anti-weld slag NPN RPE4-TF1803N-PU-02 DC RPT4-TF1803D-PU-01 Type Code Type Code PNP RPE4-TF1803P-PU-02 Housing:Fluorinated resin coated/Active face:Fluorinated resin Housing:Fluorinated resin coated/Active face:Fluorinated resin

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

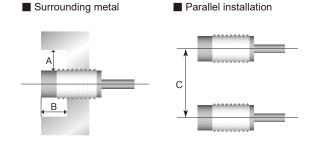
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT4-1803D-PU-__ / RPE4-1803 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RPT4-1803D-PU	18	18	110
RPE4-1803 -PU	10	10	110





Transmitter

Power supply

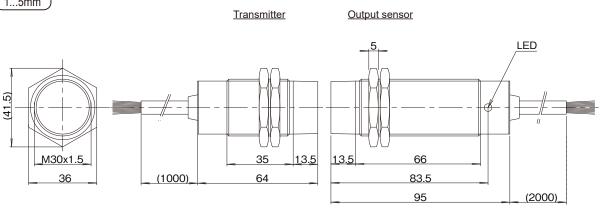
& PLC

Output

sensor



DC 2-wire



A004

Wiring C008 / P.121

Transmitter				
Type DC 2	2-wire	RPT4-3005D-PU-01		
Drive voltage		12V ± 1.5V DC		
Drive current		5 mA per sensor		
No. of Input sig	nals	4 signals		
Operating dista	nce	15mm		
Center offset		±6mm		
Drive current		5mA		
Operating temperature				
Protection class		IP67		
Cable		PUR / φ 6.3 , 7x0.3mm ²		
Material Housing		Nickel plated brass		
Active fac	е	Nylon 12		
Weight		Body 130 g + Cable60 g × 1 m		
Anti-weld slag Type Code	DC 2-wire	RPT4-TF3005D-PU-01		
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

		Output sensor	
Type NP	N	RPE4-3005N-PU-02	
Code PN	Р	RPE4-3005P-PU-02	
0 1 1		0.07/20 -50/ (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Supply voltag	е	24V DC ±5% (including ripple)	
Current consu	mption	≦ 150mA	
No. of Output	signals	4 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of operation		30Hz	
LED		Inzone	
Operating temp	oerature	0+50°C	
Protection cla	ISS	IP67	
Cable		PUR / ϕ 6.3 , 7x0.3mm ²	
Material Housing		Nickel plated brass	
Active face		Nylon 12	
Weight		Body 160 g + Cable60 g × 2 m	
Anti-weld slag	NPN	RPE4-TF3005N-PU-02	
Type Code	PNP	RPE4-TF3005P-PU-02	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

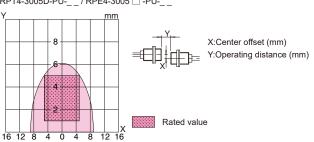
Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦5mA
Leakage current	≦1mA

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RPT4-3005D-PU-__ / RPE4-3005 □ -PU-_ _

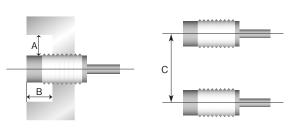


Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal

■ Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RPT4-3005D-PU	40	32	200
RPE4-3005 -PU	40	32	300

Signal type
Switch signal
Sensor type

Remote Sensor

DC 2-wire

DC 3-wire
Detector type

Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

detector type

Thermocouple type

Resistance hermometer type

Load cell type

Analog sensor type

Exclusive sensor

Other unit

Wiring

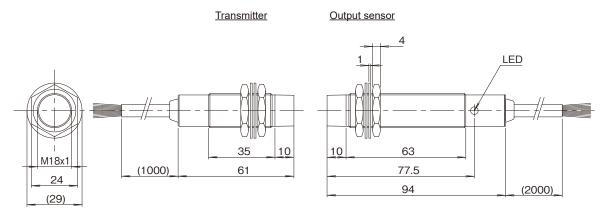
Discontinue

Inde



for max. 8 sensors / Size: M18

Operating distance 0.5...3mm



A014

Wiring	C009 / P.122
--------	--------------

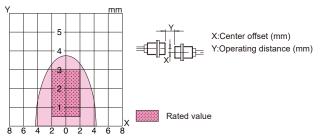
	Output sensor				
Type DC 2-wire RPT8-1803D-PU-01		Type NPN		RPE8-1800N-PU-02	
Code		Code PNP		RPE8-1800P-PU-02	
Drive voltage	12V ± 1.5V DC	Supply voltage		24V DC ±10% (including ripple)	
Drive current	5 mA per sensor	,		≦ 400mA	
No. of Input signals	8 signals	No. of Output sig	gnals	8 signals + 1 signal (Inzone)	
Operating distance 0.53mm L		Load current		max.50mA per output	
Center offset	±2.5mm	Frequency of operation		60Hz	
Drive current	5mA	LED		Inzone	
Operating temperature		Operating temper	rature		
Protection class	IP67	Protection class		IP67	
Cable	PUR / φ 7.9 , 9x0.18mm ²	Cable		PUR / ϕ 7.7 , 2x0.5mm ² +9x0.18mm ²	
Material Housing	Nickel plated brass	Material Housing		Nickel plated brass	
Active face	Nylon 12	Active face		Nylon 12	
Weight	Body 60 g + Cable75 g × 1 m	Weight		Body 90 g + Cable75 g × 2 m	
Anti-weld slag		Anti-weld slag	NPN	RPE8-TF1800N-PU-02	
Type Code wire	RPT8-TF1803D-PU-01	Type Code		RPE8-TF1800P-PU-02	
		7 1			
Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≤ 1mA

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT8-1803D-PU-__ / RPE8-1800 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal Parallel installation A C

Type Code	A(mm)	B(mm)	C(mm)
RPT8-1803D-PU	18	18	110
RPE8-1800 🗌 -PU	10	10	110





Transmitter

Output

sensor

Power supply

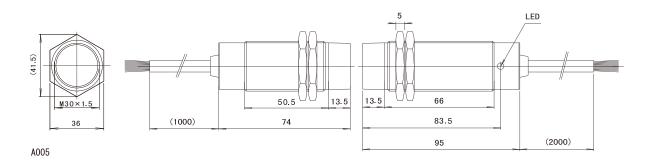
& PLC



DC 2-wire

<u>Transmitter</u>

Output sensor



RPT8-3007D is - common.

The + common type is also available, please contact ud.

	1
Wiring	C010 / P.122

Transmitter			
Type DC 2-wi	RPT8-3007D-PU-01		
Drive voltage	22V +4 -2V DC		
Drive current	5 mA per sensor		
No. of Input signals	8 signals		
Operating distance	27mm		
Center offset	±3mm		
Drive current	5mA		
Operating temperatu	re 0+50°C		
Protection class	IP67		
Cable	PUR / ϕ 7.7 , 2x0.5mm ² +9x0.18mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 150 g + Cable75 g × 1 m		
Anti-weld slag Type Code DC: wire	DD18-1E300711-D11-01		
Mate	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

	Output sensor		
Type NPN		RPE8-3000N-PU-02	
Code PNP		RPE8-3000P-PU-02	
Supply voltage		24V DC ±10% (including ripple)	
Current consump	otion	≦ 400mA	
No. of Output s	ignals	8 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of ope	eration	60Hz	
LED		Inzone	
Operating temperature		0+50°C	
Protection class		IP67	
Cable		PUR / ϕ 7.7 , 2x0.5mm ² +9x0.18mm ²	
Material Housing		Nickel plated brass	
Active face		Nylon 12	
Weight		Body 190 g + Cable75 g × 2 m	
Anti-weld slag	NPN	RPE8-TF3000N-PU-02	
Type Code	PNP	RPE8-TF3000P-PU-02	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Applicable sensor

Supply voltage	22V DC
Residual voltage	≦6V
Minimum load current	≦5mA
Leakage current	≦1mA

RPT8-3007D-PU-_ _ / RPE8-3000 🗆 -PU-_ _

6

Please sure to use applicable detector switch according to the specification on left.

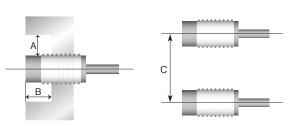
X:Center offset (mm)

Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal

Parallel	insta	llation



Type Code	A(mm)	B(mm)	C(mm)
RPT8-3007D-PU	20	20	200
RPE8-3000 -PU	30	20	200

Signal type
Switch signal



Remote Sensor

DC 3-wire
Detector type

Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance hermometer type

_oad cell type

Analog sensor type

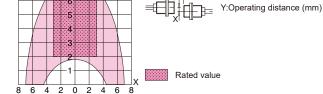
Exclusive sensor

Other unit

Wiring

Discontinue

Index



Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

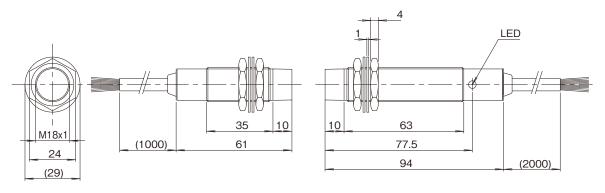


for max. 8 sensors / Size: M18



Transmitter

Output sensor



A014

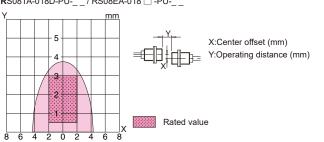
Transmitter		Output sensor			
Type DC 2-wire	DOGGTA GAOD DIL GA	Туре	NPN	RS08EA-018N-PU-02	
	RS08TA-018D-PU-01		PNP	RS08EA-018P-PU-02	
Drive voltage	12V ± 1.5V DC	Supply	voltage	24V DC ±10% (including ripple)	
Drive current	5 mA per sensor	Current	consumption	≦ 150mA	
No. of Input signals	8 signals	_		8 signals + 1 signal (Inzone)	
Operating distance	0.53mm	Load current		max.50mA per output	
Center offset	±2.5mm	Frequency of operation		60Hz	
Drive current	5mA	LED		Inzone	
Operating temperature	0+80°C	Operating temperature		0+80℃	
Protection class	IP67 Protection class		IP67		
Cable	PUR / φ 7.9 , 9x0.18mm ²	Cable		PUR / φ 7.7 , 2x0.5mm ² +9x0.18mm ²	
Material Housing	Nickel plated brass	Material Housing		Nickel plated brass	
Active face	Nylon 12	Active face		Nylon 12	
Weight	Body 65 g + Cable75 g × 1 m	Weight		Body 95 g + Cable75 g × 2 m	

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

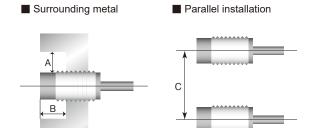
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RS08TA-018D-PU-_ / RS08EA-018 □ -PU-_



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



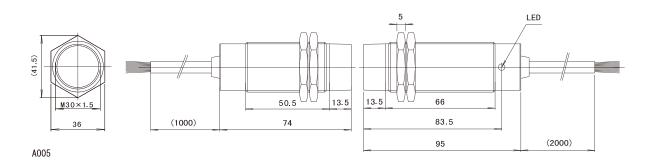
Type Code	A(mm)	B(mm)	C(mm)
RS08TA-018D-PU	18	18	110
RS08EA-018 -PU	10	10	110

for maz. 8 sensors / Size: M30



Transmitter

Output sensor



Wiring C009 / P.122

	Transmitter	
Type DC 2-wire	RS08TA-030D-PU-01	
Drive veltere	101/ 1 1 51/ DC	
Drive voltage	12V ± 1.5V DC	
Drive current	5 mA per sensor	
No. of Input signals	8 signals	
Operating distance	27mm	
Center offset	±3mm	
Drive current	5mA	
0 " 1	0.0000	
Operating temperature	0+80°C	
Protection class	IP67	
Cable	PUR / φ 7.9 , 9x0.18mm ²	
Material Housing	Nickel plated brass	
Active face	Nylon 12	
Weight	Body 150 g + Cable75 g × 1 m	

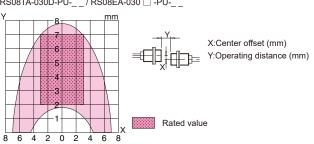
	Output sensor		
Type NPN		RS08EA-030N-PU-02	
Code	PNP	RS08EA-030P-PU-02	
Supply	voltage	24V DC ±10% (including ripple)	
Current	consumption	≦ 150mA	
No. of C	output signals	8 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of operation		60Hz	
LED		Inzone	
Operatin	g temperature	0+80°C	
Protection class		IP67	
Cable		PUR / ϕ 7.7 , 2x0.5mm ² +9x0.18mm ²	
Material Housing Nickel plated brass		Nickel plated brass	
	Active face	Nylon 12	
Weight		Body 160 g + Cable75 g × 2 m	

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦5mA
Leakage current	≦1mA

Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RS08TA-030D-PU-_ _ / RS08EA-030 🗌 -PU-_ _

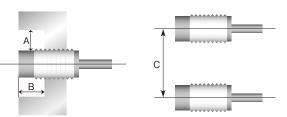


Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal





Type Code	A(mm)	B(mm)	C(mm)
RS08TA-030D-PU	30	20	200
RS08EA-030 🗆 -PU	30	20	200

Signal type Switch signal



DC 2-wire

Remote Sensor

DC 2-wire Detector type

DC 2-wire Terminal unit

Wiring

Remote Sensor System Switch Signal

DC 2-wire Detector type / Regular type 15 signals transmission

Transmitter



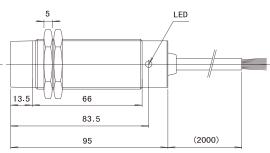
for maz. 15 sensors / Size: M30

Operating distance 1...5mm

A005

M30×1.5 36 (1000) 74

Output sensor



Wiring C011 / P.123

	Transmitter				
Type DC 2	2-wire	RPT15-3005D-PU-01	T C		
Drive voltage		12V ± 1.5V DC	S		
Drive current		5 mA per sensor			
No. of Input sig	nals	15 signals	Ν		
Operating dista	nce	15mm	L		
Center offset		±2.5mm	F		
Drive current		5mA	L		
Operating tempe	rature	0+50℃	O		
Protection clas	S	IP67	Р		
Cable		PUR / φ 8.6 , 2x0.5mm ² +16x0.18mm ²	C		
Material Housing		Nickel plated brass	N		
Active face		Nylon 12			
Weight		Body 170 g + Cable105 g × 1 m	٧		
Anti-weld slag Type Code	DC2- wire	RPT15-TF3005D-PU-01	A		
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin			

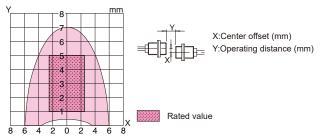
	Output sensor		
Type NPN RPE15-3000N-PU-02			
Code PNP		RPE15-3000P-PU-02	
Supply voltage)	24V DC +10 -20% (including ripple)	
Current consun			
No. of Output s	ignals	15 signals + 1 signal (Inzone)	
Load current		max.50mA per output	
Frequency of ope	eration	20Hz	
LED		Inzone	
Operating temperature		0+50°C	
Protection clas		IP67	
Cable		PUR / φ 8.6 , 2x0.5mm ² +16x0.18mm ²	
Material Housin	ng	Nickel plated brass	
Active	face	Nylon 12	
Weight		Body 200 g + Cable105 g × 2 m	
Anti-weld slag	NPN	RPE15-TF3000N-PU-02	
Type Code	PNP	RPE15-TF3000P-PU-02	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Applicable sensor

Supply voltage	12V DC
Residual voltage	≦ 3.5V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

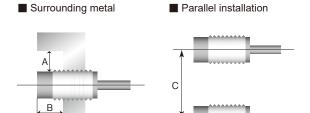
Please sure to use applicable detector switch according to the specification on left.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RPT15-3005D-PU-__ / RPE15-3000 □ -PU-__



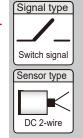
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RPT15-3005D-PU	20	20	200
RPE15-3000 -PU	30	20	200





Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple

Resistance thermometer type

oad cell type

Analog sensor

Exclusive sensor

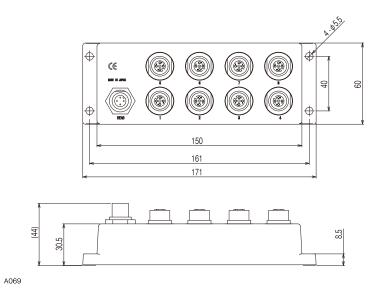
Other unit

Wiring

Discontinue

DC 2-wire Detector type / Terminal unit type 8 signals transmission





This dimensional drawing shows connector type 1.

		Wiring	C025 / P.124
--	--	--------	--------------

	Transmitter / Remote terminal
Type Connector type 1	RS8TA-222D-S04
Code Connector type 2	R\$8T-222D-\$04
Sensor type	DC 2-wire type (M12 connecter 4-pin : polarized / 1:+,4:-, non-polarized / 3:+,4:-)
Drive voltage	22V DC ± 10%
Drive current	5 mA per sensor
Operating temperature	0+50°C
Protection class	IP67
Connection sensor	Connector M12 (Female) x 8
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS
Weight	600 g
Remark	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	22V DC
Residual voltage	≦ 6V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

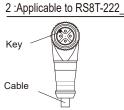
Please sure to use applicable detector switch according to the specification on left.

Pin assigned of connector for 3:+ sensors

Applicable angle connector type (Detector's connector)

When using an angle connector, please use a connector of which key is positioned same as the following figure.

1:Applicable to RS8TA-222_



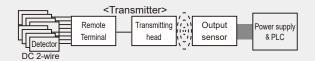






The direction of the cable is shown in the left figure.

The straight connector can be used to both type of Remote Terminal.



for max. 8 sensors Terminal unit type / Size : M30



INZONE LED 13.5 70 13.5 M30x1.5 95 36 (40)(1,000) (2000)

Output sensor

Transmitting head

A057

	Output sensor
Type NPN	RSH8E-030N-PU-02
Code PNP	RSH8E-030P-PU-02
Supply voltage	24V DC ±10% (including ripple)
Current consumption	≦ 500mA
No. of Output signals	8 signals + 1 signal (Inzone)
Load current	max.50mA per output
Frequency of operation	20Hz
LED	Inzone
Operating temperature	0+50°C
Protection class	IP67
Cable	PUR/ φ 7.7、2x0.5mm ² +9x0.18mm ²
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 160 g + Cable75 g × 2 m

Transmitter / Transmitting head			
Type connect to Code Remote Terminal	RSH8T-030-PU-CP1.0		
Drive voltage	22V ± 1.5V DC		
Drive current	120mA		
Remote terminal	RS8TA-222S04、RS8T-222S04		
Operating distance	28mm		
Center offset	±3mm		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	M12 connector Cable (1m、3m、5m)		
Cable	connect to Remote Terminal		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 120 g + Cable50 g × 1 m		
Anti-weld slag Type Code connect to Remote Terminal	RSH8T-TF030-PU-CP1.0		

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Installation notes

NPN

PNP

Anti-weld slag

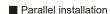
Type Code

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

RSH8E-TF030N-PU-02

RSH8E-TF030P-PU-02

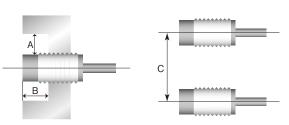
■ Surrounding metal



Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Wiring

C025 / P.124



Type Code	A(mm)	B(mm)	C(mm)
RSH8T-030-PU-CP	30	30	160
RSH8E-030 🗌 -PU	30	30	160

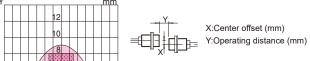
Signal type Switch signal Sensor type

DC 2-wire

Remote Sensor

DC 2-wire Terminal unit

Wiring

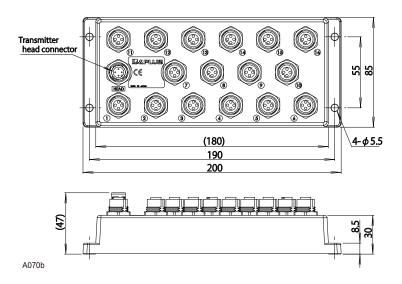


Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

10	X:Center offset (mm) Y:Operating distance (mm)
8	XI CILL
2	
LMIIIIIIII x	Rated value
1210 8 6 4 2 0 2 4 6 8 1012	



Terminal unit type / Remote Terminal for max. 16 sensors



This dimensional drawing shows connector type 1.

Wiring C026 / P.124

	Transmitter / Remote terminal
Type Connector type 1	RS16TA-211D-S04
Code Connector type 2	RS16T-211D-S04
Sensor type	DC 2-wire type (M12 connecter 4-pin : polarized / 1:+,4:-, non-polarized / 3:+,4:-)
Drive voltage	22V DC ± 10%
Drive current	5 mA per sensor
Operating temperature	0+50°C
Protection class	IP67
Connection sensor	Connector M12 (Female) x 16
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS(GF40%)
Weight	1000 g
Remark	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	22V DC
Residual voltage	≦ 6V
Minimum load current	≦ 5mA
Leakage current	≦ 1mA

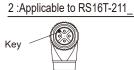
Please sure to use applicable detector switch according to the specification on left.

Pin assigned of connector for 3:+ sensors

Applicable angle connector type (Detector's connector)

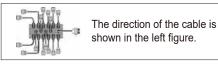
When using an angle connector, please use a connector of which key is positioned same as the following figure.

1 :Applicable to RS16TA-211_



Cable



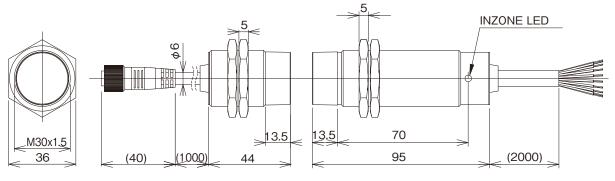


The straight connector can be used to both type of Remote Terminal.

for max. 16 sensors Terminal unit type / Size : M30

Operating distance 2...8mm

<u>Transmitting head</u> <u>Output sensor</u>



A057

Wiring	C026 / P.124
--------	--------------

Transmitter / Transmitting head		
Type color Code Remote 1	nnect to Ferminal	RSH16T-030-PU-CP1.0
Drive voltage		22V ± 1.5V DC
Drive current		120mA
Remote terminal		RS16TA-211S04、RS16T-211S04
Operating dista	ance	28mm
Center offset		±3mm
Operating temperature		
Protection class		<u>IP67</u>
Cable		M12 connector Cable (1m、3m、5m)
		connect to Remote Terminal type
Material Housin	ng	Nickel plated brass
Active face		Nylon 12
Weight		Body 120 g + Cable50 g × 1 m
Anti-weld slag Type Code	connect to Remote Terminal	RSH16T-TF030-PU-CP1.0
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

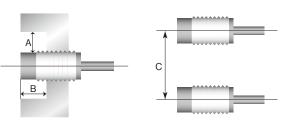
		Output sensor		
Type NPN		RSH16E-030N-PU-02		
Code PNP		RSH16E-030P-PU-02		
Supply voltage		24V DC ±10% (including ripple)		
Current consum		≦ 500mA		
No. of Output s	ignals	16 signals + 1 signal (Inzone)		
Load current		max.50mA per output		
Frequency of ope	eration	20Hz		
LED		Inzone		
Operating temperature		0+50°C		
Protection clas	S	IP67		
Cable		PUR/ φ 8.5、2x0.5mm ² +17x0.18mm ²		
Material Housin	ng	Nickel plated brass		
Active	face	Nylon 12		
Weight		Body 160 g + Cable110 g × 2 m		
Anti-weld slag NPN		RSH16E-TF030N-PU-02		
Type Code	PNP	RSH16E-TF030P-PU-02		
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

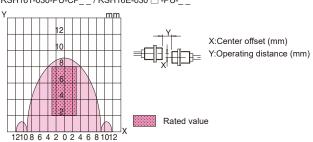
■ Surrounding metal

■ Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RSH16T-030-PU-CP	30	30	160
RSH16E-030 🗌 -PU	30	30	160

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)
RSH16T-030-PU-CP__/ RSH16E-030 □ -PU-__







Remote Sensor

DC 3-wire Detector type

Terminal unit

DC 2-wire
Detector type

DC 2-wire Terminal unit

Exclusive detector type

type

Resistance hermometer type

Load cell type

Analog sensor type

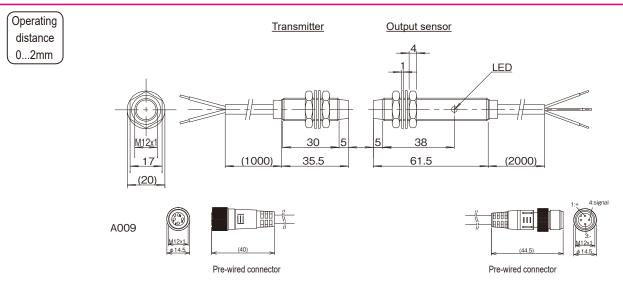
Exclusive sensor

Other unit

Wiring

Discontinue

for 1 sensor / Size : M12



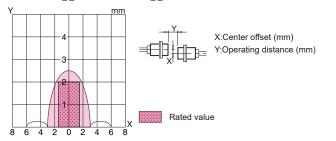
Wiring C012 / P.125

	Transmitter				Output sensor		
		Cable	Pre-wired connector			Cable	Pre-wired connector
Туре	RXD	RXT-1202-PU-01	RXT-1202-PU-CP0.3	Туре	NPN	RXE-1202N-PU-02	RXE-1202N-PU-CP0.3
Code	Mechanical	RST-1202-PU-01	-	Code	PNP	RXE-1202P-PU-02	RXE-1202P-PU-CP0.3
Drive v	/oltage			Supply	voltage	24V DC ±10% (including	g ripple)
Drive o	current			Current	consumption	≦ 25mA	
No. of	Input signal	1 signal		No. of	Output signal	1 signal	
Operating distance 02mm (01.6mm)		Load c	urrent	≦ 100mA			
Center	Center offset ±1.5mm		Frequer	ncy of operation	25Hz		
Drive o	current		LED		Signal output indication		
Operating temperature 0+50°C		Operati	ng temperature	0+50°C			
Protec	tion class	IP67		Protect	tion class	IP67	
Cable		PUR / φ 5 , 2x0.34mm ²		Cable		PUR / φ 5 , 3x0.34mm ²	
Materia	l Housing	sing Nickel plated brass		Materia	l Housing	Nickel plated brass	
	Active face	Nylon 12			Active face	Nylon 12	
Weight	t	Body 30g + Cable 25g x 1m / +Connector cable 30cm 30g		Weight		Body 40g + Cable 35g x 2m / +Connector cable 30cm	
Remar	·k	(): Operating distance who	en flush-mounted	Remar	k		

Applicable sensor

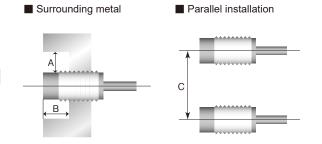
- The applicable sensor for RXT is an exclusive sensor RXD series. (see P.107)
- It is no problem even if the outer diameter of RXD and RXT is different.
- The applicable sensor of RST is a mechanical switch which is the micro-load type without LED.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RXT-1202-PU-__ / RXE-1202 □ -PU-__



Installation notes

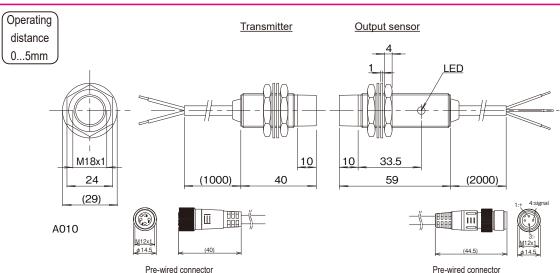
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RXT-1202-PU	12 (6)	10 (0)	100 (20)
RXE-1202 -PU	12 (6)	12 (0)	100 (20)

(): Flush-mounted in metal

for 1 sensor / Size: M18



Wiring	C012 / P.125

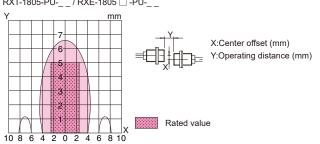
	Transmitter		
	Cable	Pre-wired connector	
Type RXD	RXT-1805-PU-01	RXT-1805-PU-CP0.3	
Drive voltage			
Drive current			
No. of Input signals	1 signal		
Operating distance	05mm (04mm)		
Center offset	±2.5mm		
Drive current			
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 2x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 40g + Cable 25g x 1m / +Connector cable 30cm 30g		
Remark	(): Operating distance when flush-mounted		

	Output sensor		
	Cable	Pre-wired connector	
Type NPN	RXE-1805N-PU-02	RXE-1805N-PU-CP0.3	
Code PNP	RXE-1805P-PU-02	RXE-1805P-PU-CP0.3	
Supply voltage	24V DC ±10% (including	ng ripple)	
Current consumption	≦ 25mA		
No. of Output signal	1 signal		
Load current	≦ 100mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 60g + Cable 35g x 2m / +Connector cable 30cm 30g		
Remark			

Applicable sensor

- The applicable sensor for RXT is an exclusive sensor RXD series. (see P.107)
- It is no problem even if the outer diameter of RXD and RXT is different.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RXT-1805-PU-__ / RXE-1805 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

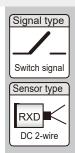
Surrounding metal Parallel installation

A

C

Type Code	A(mm)	B(mm)	C(mm)
RXT-1805-PU	18 (9)	10 (0)	110 (25)
RXE-1805 🗌 -PU	18 (9)	16 (0)	110 (35)

() : Flush-mounted in metal



Remote Sensor

DC 3-wire
Detector type

Terminal unit

DC 2-wire
Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance thermometer type

oad cell type

Analog sensor

Exclusive sensor

Terminal box Other unit

Wiring

Discontinued plans

Inde



for max. 8 sensors / Size: M18

Operating distance 1...5mm

Transmitter Output sensor 4 1 1 LED M18x1 24 (29) (2000)

A014

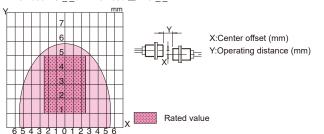
Wiring	C027 / P.125
--------	--------------

	Transmitter		Output sensor
Type RXD /	RXT8-1805-PU-01	Type NPN	RXE8-1800N-PU-02
Code Mechanical	10001001	Code PNP	RXE8-1800P-PU-02
Drive voltage		Supply voltage	24V DC ±10% (including ripple)
Drive current		Current consumption	≦ 150mA
No. of Input signals	8 signals	No. of Output signals	8 signals + 1 signal (Inzone)
Operating distance	15mm	Load current	max.50mA per output
Center offset	±2.5mm	Frequency of operation	100Hz
Drive current		LED	Inzone
Operating temperature		Operating temperature	0+50°C
Protection class	IP67	Protection class	IP67
Cable	PUR / φ 7.9 , 9x0.18mm ²	Cable	PUR / φ 7.7 , 2x0.5mm ² +9x0.18mm ²
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass
Active face	Nylon 12	Active face	Nylon 12
Weight	Body 65 g + Cable75 g × 1 m	Weight	Body 95 g + Cable75 g × 2 m
Remark		Remark	

Applicable sensor

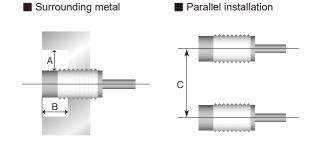
- The applicable sensor is an exclusive sensor RXD series (see P.107) and a mechanical switch. The standard sensors can not be used.
- It is no problem even if the outer diameter of RXD and RXT is different.
- When using a mechanical switch,it should be the micro-load type without LED.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RXT8-1805-PU-__ / RXE8-1800 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RXT8-1805-PU	18	10	110
RXE8-1800 🗆 -PU	10	18	110



for max. 8 sensors / Size: M30

Transmitter

RXD

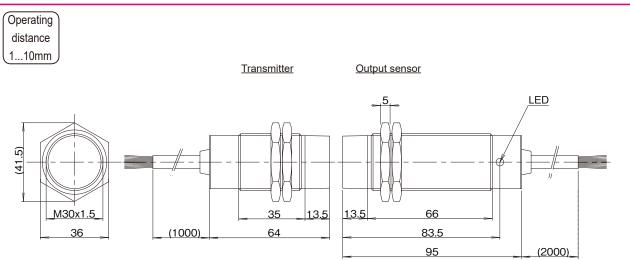
A004

Output

sensor

Power supply

& PLC



Wiring C027 / P.125

	Transmitter		
Type RXD / Code Mechanical	RXT8-3010-PU-01		
Drive voltage			
Drive current			
No. of Input signals	8 signals		
Operating distance	110mm		
Center offset	±3mm		
Drive current			
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 7.9 , 9x0.18mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 110 g + Cable75 g × 1 m		
Remark			

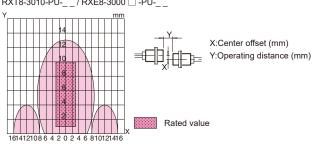
Output concer			
Output sensor			
Type NPN	RXE8-3000N-PU-02		
Code PNP	RXE8-3000P-PU-02		
Supply voltage	24V DC ±10% (including ripple)		
Current consumption	≤ 150mA		
No. of Output signals			
Load current	max.50mA per output		
Frequency of operation	100Hz		
LED	Inzone		
Operating temperature	0+50°C		
Protection class	IP67		
Cable	PUR / φ 7.7 , 2x0.5mm ² +9x0.18mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight Body 160 g + Cable75 g × 2 m			
Remark			

Applicable sensor

- The applicable sensor is an exclusive sensor RXD series (see P.107) and a mechanical switch. The standard sensors can not be used.
- It is no problem even if the outer diameter of RXD and RXT is different.
- When using a mechanical switch,it should be the micro-load type without LED.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

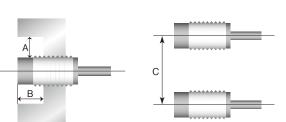
RXT8-3010-PU-__ / RXE8-3000 □ -PU-__



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal



■ Parallel installation

Type Code	A(mm)	B(mm)	C(mm)
RXT8-3010-PU	30	20	200
RXE8-3000 -PU			

Signal type
Switch signal
Sensor type
RXD
DC 2-wire

Remote Sensor

DC 3-wire
Detector type

Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple type

Resistance thermometer type

oad cell type

Analog sensor type

Exclusive sensor

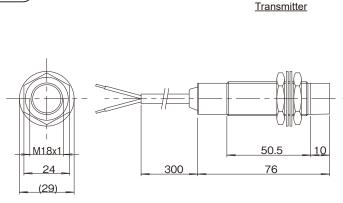
Terminal box Other unit

Wiring

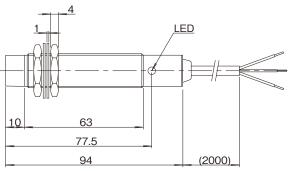
Discontinue

for 1 thermocouple K type / Size: M18









A035

0

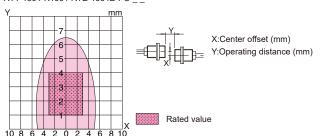
Transmitter		
Type Thermocouple K Code 01000°C	RTT-1804-K100	
Sensor type	Thermocouple K type	
No. of Input signal	1 signal	
Measuring range	01000°C	
Operating distance	14mm	
Center offset	±2.5mm	
Operating temperature	0+60°C	
Protection class	IP67	
Cable	Compensating lead wire 2x0.34mm ² ,ellipse 5x3.5mm ²	
Material Housing Nickel plated brass		
Active face	Nylon 12	
Weight	Body 75 g + Cable40 g × 0.3 m	
Remark		

Output sensor			
Type Current output	RTE-1804E-PU-02		
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≦ 150mA		
No. of Output signal	1 signal		
Output	420mA		
Resolution	0.1%		
Response delay	≦ 0.5 sec.		
LED	Inzone		
Operating temperature	0+60°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Material Housing Nickel plated brass		
Active face Nylon 12			
Weight	Body 95 g + Cable35 g × 2 m		
Remark			

Notes

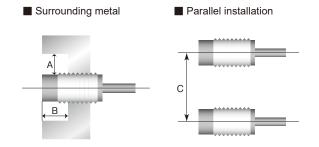
- -Please use thermocouple K type complying to JIS.
- -The temperature range is allowed 0...1000 degree C.
- -Transmitter compensates the thermal voltage at the standard base temperature and converts to digital databased on this temperature range.
- -Output is current source, therefore please connect the load between output and negative.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RTT-1804-K100 / RTE-1804E-PU-_



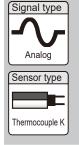
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RTT-1804-K100	20	15	110
RTE-1804E-PU	20		





Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive detector type

Thermocouple K type

Resistance thermometer type

oad cell type

Analog sensor

xclusive

Terminal box Other unit

Wiring

Discontinue

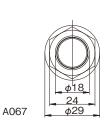


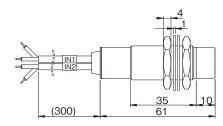
for 2 thermocouple K type / Size : M18

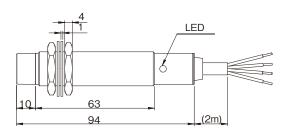
Operating distance 1...4mm

Transmitter

Output sensor







2 compensating lead wires Outer diameter : 3.2x5.1mm color of outer sheath : Blue, VX-G:7/0.3x2

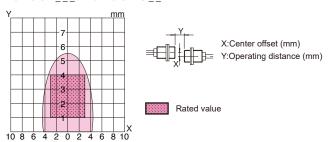
		Transmitter			
Туре	01000°C	RS02T-018-K1000			
Code	0300°C	RS02T-018-K300			
Applica	able sensor	JIS Thermocouple K			
	Input signals	2 signals (1CH, 2CH)			
Measuring range		01000°C or 0300°C			
Compensated cold junction		≦±0.5°C			
Operating distance		14mm			
Center offset		±2.5mm			
Operati	ing temperature	0+80°C			
Protec	tion class	IP67			
Cable		Compensating lead wire(JIS) 0.9mm x 2 All heat-resistant vinyl (90°C)			
Materia	l Housing	Nickel plated brass			
	Active face	Nylon 12			
Weight	t	120 g (incl. cable)			
Remar	·k				

	Willing C013/1.120			
Output sensor				
Type Code	RS02E-018E-PU-02			
Supply voltage	24V DC ±5% (including ripple)			
Current consumption	≦ 150mA			
No. of Output signals	4 20 mA × 2			
Load current	<u>≤</u> 400Ω			
Resolution	= 0.04% Full-scale range			
Response delay	≦ 0.5 sec.			
Linearity	≤ ±0.8% Full-scale range			
LED	Inzone (data valid)			
Operating temperature	0+80°C			
Protection class	IP67			
Cable	PUR、 φ 5mm/4x0.25mm²			
Material Housing	Nickel plated brass			
Active face	Nylon 12			
Weight	Body 95g + Cable 30g x 2m			
Remark				

Notes

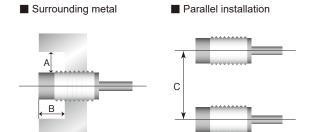
- -Please use thermocouple K type complying to JIS.
- -The measurement temperature range is within the specifications mentioned above.
- -Output is current source, therefore please connect the load between output and negative.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RS02T-018-K / RS02E-018E-PU-



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RS02T-018-K1000			
RS02T-018-K300	20	15	110
RS02E-018E-PU			

Detector

for 2 thermocouple J type / Size: M18

Output

sensor

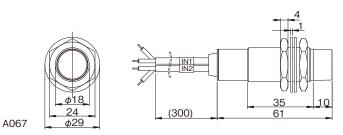
Power supply

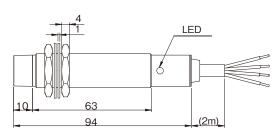
& PLC



Transmitter

Output sensor





2 compensating lead wires Outer diameter: 3.2x5.1mm color of outer sheath : Yellow, JX-G:7/0.3x2

Viring	C015 / P.126
--------	--------------

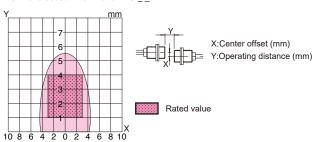
Transmitter				
Type 0300°C	RS02T-018-J300			
Applicable sensor	JIS Thermocouple J			
No. of Input signals	2 signals (1CH, 2CH)			
Measuring range	0300°C			
Compensated cold junction	≦±0.5°C			
Operating distance	14mm			
Center offset	±2.5mm			
Operating temperature	0+80°C			
Protection class	IP67			
Cable	Compensating lead wire(JIS) 0.9mm x 2 All heat-resistant vinyl (90°C)			
Material Housing	Nickel plated brass			
Active face	Nylon 12			
Weight	120 g (incl. cable)			
Remark				

Output sensor				
Type Code	RS02E-018E-PU-02			
Supply voltage	24V DC ±5% (including ripple)			
Current consumption	≦ 150mA			
No. of Output signals	420 mA×2			
Load current	<u>≤</u> 400Ω			
Resolution	= 0.04% Full-scale range			
Response delay	≦ 0.5 sec.			
Linearity	≦ 0.8% Full-scale range			
LED	Inzone (data valid)			
Operating temperature	0+80°C			
Protection class	IP67			
Cable	PUR、 φ 5mm/4x0.25mm ²			
Material Housing	Nickel plated brass			
Active face	Nylon 12			
Weight	Body 95 g + Cable 30 g x 2m			
Remark				

Notes

- -Please use thermocouple K type complying to JIS.
- -The measurement temperature range is within the specifications mentioned
- -Output is current source, therefore please connect the load between output and negative.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RS02T-018-J300 / RS02E-018E-PU-



Installation notes

Surrounding metal

В

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Parallel installation

С

Type Code	A(mm)	B(mm)	C(mm)
RS02T-018-J300	20	15	110
RS02E-018E-PU	20	15	110





Remote Sensor

Thermocouple K / J type

Terminal box Other unit

Wiring

for 1 resistance thermometer / Size: M18

distance 1...4mm

Transmitter Output sensor LED 63 10 (1000)61 77.5 94 (2000)

A039

	Wiring	C016 / P.126
Output sensor		

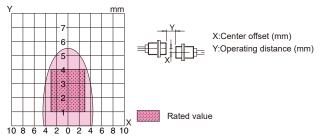
	Transmitter				
Туре	0100°C	RTT-1804-PT1B10-PU-01			
Code	0200°C	RTT-1804-PT1B20-PU-01			
	0300°C	RTT-1804-PT1B30-PU-01			
Sensor	type	Resistance thermometer type Pt100 3-wire			
No. of	Input signal	1 signal			
Measu	ring range	0100℃, 0200℃, 0300℃			
Operat	ing distance	14mm			
Center offset		±2.5mm			
Operation	ng temperature	0+60°C			
Protect	ion class	IP67			
Cable		PUR / φ 5 , 3x0.34mm ²			
Materia	Housing	Nickel plated brass			
	Active face	Nylon 12			
Weight		Body 75 g + Cable35 g × 1 m			
Remar	k				

	Output sensor			
Type Code Current output	RTE-1804E-PU-02			
Supply voltage	24V DC ±5% (including ripple)			
Current consumption	≦ 150mA			
No. of Output signal	1 signal			
Output	420mA			
Resolution	≦ 0.5°C			
Response delay	≦ 0.5 sec.			
LED	Inzone			
Operating temperature	0+60°C			
Protection class	IP67			
Cable	PUR / φ 5 , 3x0.34mm ²			
Material Housing Nickel plated brass				
Active face	Nylon 12			
Weight	Body 95 g + Cable35 g × 2 m			
Remark				

Notes

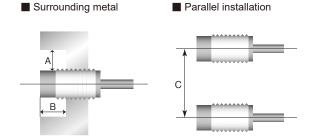
- For detector, please use Resistance thermometer type Pt100 (3-wire) that meets the JIS C1602.
- The temperature range is allowed as ; RTT-1804-PT1B10-PU-__: 0...100°C RTT-1804-PT1B20-PU-__: 0...200°C RTT-1804-PT1B30-PU-__: 0...300°C
- Output is current source, therefore please connect the load between output and negative.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RTT-1804-PT1B_0-PU-01 / RTE-1804E-PU-02

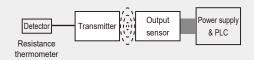


Installation notes

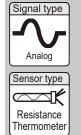
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RTT-1804-PT1B_0-PU	20	15	110
RTE-1804E-PU	20	15	110







Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive

detector type

Resistance

thermometer type

oad cell type

Analog sensor type

Exclusive sensor

Terminal box Other unit

Wiring

Discontinue

Index

for 1 load cell / Size: M18

Operating distance 1...4mm

Transmitter Output sensor 4 1 M18x1 24 (1000) 61 77.5 94 (2000)

A040

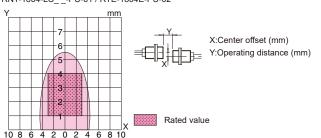
Wiring C017 / P.126

		Tra	nsmitter			Output sensor
Type 1mV/V		RNT-1804-LC10-PU-01		Туре		
Code	1.5mV/V	RNT-1804-L	.C15-PU-01		Code Current output	RTE-1804E-PU-02
2mV/V		RNT-1804-LC20-PU-01				
Sensor	r type	Compression	load cell 350 Ω± 1	10%	Supply voltage	24V DC ±5% (including ripple)
No. of	Input signal	1 signal			Current consumption	≦ 150mA
Operat	ing distance	14mm			No. of Output signal	1 signal
Center	offset	±2.5mm			Output	420mA
Input s	ensitivity	1mV/V	1.5mV/V	2mV/V	Resolution	≤ 0.51% (depending on input sensitivity)
Resolu	ition	≦ 1%	≤ 0.75%	≦ 0.5%	Response delay	≦ 0.5 sec.
Operati	ng temperature	0+60°C			LED	Inzone
	tion class	IP67			Operating temperature	0+60°C
Cable		PUR / Ø5.5,	4x0.25mm ² with	n shield	Protection class	IP67
Material	Housing	ng Nickel plated brass		Cable	PUR / φ 5 , 3x0.34mm ²	
	Active face	ace Nylon 12		Material Housing	Nickel plated brass	
Weight	i .	Body 80 g +	Cable50 g × 1 m		Active face	Nylon 12
Remar	k		<u> </u>		Weight	Body 95 g + Cable35 g × 2 m
Tomai	mark		Remark			

Notes

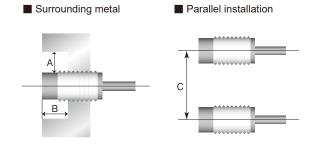
- Use a compression load cell (350 ohm +/- 10%) as a detector.
- Output is current source, therefore please connect the load between output and negative.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RNT-1804-LC__-PU-01 / RTE-1804E-PU-02



Installation notes

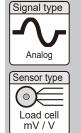
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RNT-1804-LCPU	20	15	110
RTE-1804E-PU	20	15	110







Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

DC 2-wire Terminal unit

Exclusive

Thermocouple

Resistance thermometer type

Load cell type

Analog sensor type

Exclusive sensor

Terminal box Other unit

Wiring

Discontinue

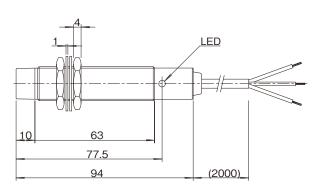
Inde

for 1 analog sensor / Size: M18

distance 0...2.5mm

<u>Transmitter</u> M18x1 50.5 10 (1000) 76 (29)

Output sensor



A041

Wiring	C018 / P.126
--------	--------------

Transmitter			
Type 010V	RNT-1803-VS10-PU-01		
Sensor type	Analog sensor output 010V		
No. of Input signal	1 signal		
Drive voltage	20 ± 4V DC		
Drive current	≦ 10mA		
Operating distance	02.5mm		
Center offset	±2mm		
Operating temperature	0+60°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 80 g + Cable35 g × 1 m		
Remark			

Output sensor			
Type Code Analog sensor RNE-1803A-PU-02			
Supply voltage	24V DC ±5% (including ripple)		
Voltage output	≦ 150mA		
No. of Output signal	1 signal		
Output	010V		
Resolution 0.1%			
Response delay	≦ 0.2 sec.		
LED	Inzone		
Operating temperature	0+60°C		
Protection class	IP67		
Cable	PUR / ϕ 5 , 3x0.34mm ²		
Material Housing	Nickel plated brass		
Active face	- ·		
Weight	Body 90 g + Cable35 g × 2 m		
Remark			

Notes

- Use the analog sesnsors whitch fulfill the specifications below:

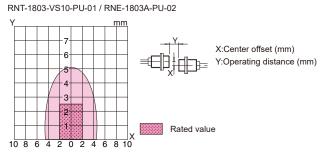
Operating voltage	1624V
Output voltage	010V
Current consumption	≦ 10mA

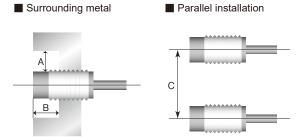
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

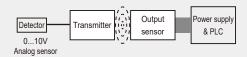
■ Parallel installation

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

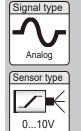




Type Code	A(mm)	B(mm)	C(mm)
RNT-1803-VS10-PU	20	15	110
RTE-1803A-PU	20	15	110







Remote Sensor

DC 3-wire Detector type

DC 3-wire Terminal unit

DC 2-wire Detector type

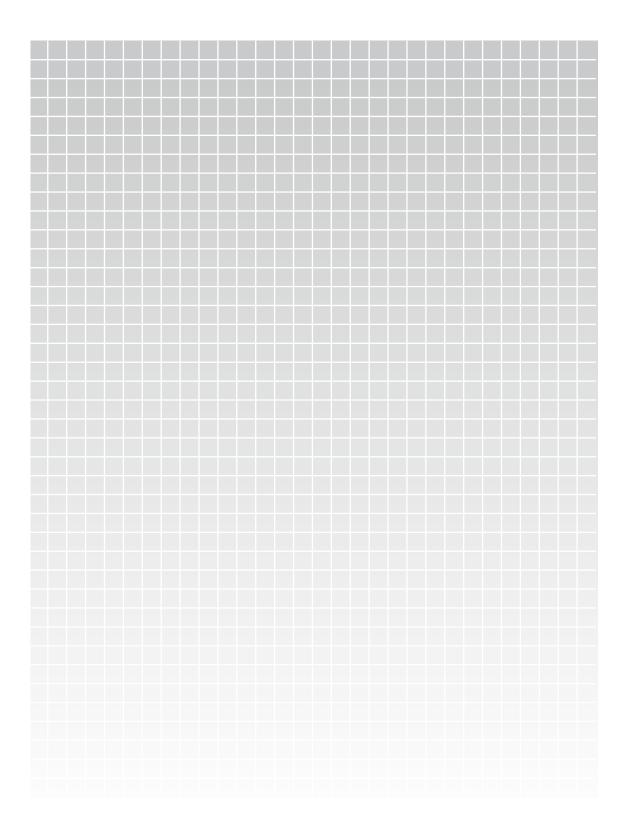
DC 2-wire Terminal unit

Resistance thermometer type

Analog sensor type

Terminal box Other unit

Wiring



Remote Coupler system Table of contents

Remote Coupler System	Switch Signal Transmission	4+4 transmission	82
		8+8 transmission	84
		64+32 transmission	86
	Data Signal Transmission	RS-232C type	90
		CC-Link type	92
		DeviceNet type	94

Remote Coupler

4+4 Switch Signals

8+8 Switch S

64+32 Switch Signals

RS-232C

CC-Link

DeviceNet



Remote Coupler System Switch Signal

4+4 Signals Transmission Remote • Base

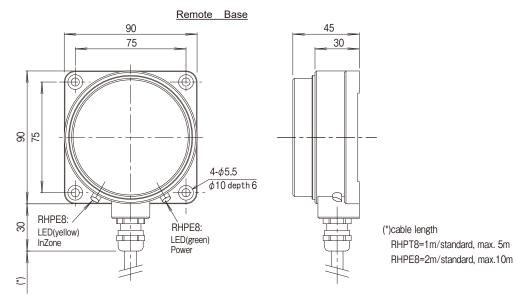


4 + 4 switch signals/ Size : 90 x 90

A042

Operating distance 3...10mm

Remote / Base shared dimension



Wiring	C019 / P.127

Remote			
Type NPN	RHPT8-8010N-C3-PU-01		
Code PNP	RHPT8-8010P-C3-PU-01		
Drive voltage	24V ± 1.5V DC		
Drive current	≦ 300mA		
Input Signal / Type	4 (SI14) / NPN or PNP		
spec 1) Load current	7 mA / per input		
Output Signal / Type	4 (SO14) + 1 (Inzone) / NPN or PNP		
spec 2) Load current	max.50mA per output		
Operating distance	310mm		
Center offset	±7mm		
Operating temperature	0+50℃		
Protection class	IP67		
Cable	PUR / φ 7.7 , 2x0.5mm ² +9x0.18mm ²		
Material Housing	Aluminum + alumite processing (metal part)		
Active face	ABS+PBT (resin part)		
Weight	Body 620 g + Cable75 g × 1 m		
Remark			
	1) Input from the conser to PUDT9		

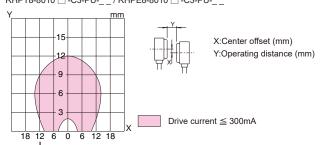
- 1) Input from the sensor to RHPT8
- 2) Output to the actuator from RHPT8

Applicable sensor and actuator

Remote can be connected up to 4 sensors and 4 acuators.

Supply voltage	24V DC	-Sensors and actuators should have		
Total current consumption	≦ 300mA	24V DC rating.		
Residual voltage		 The total current consumption o detectors and driving units must not 		
Leakage current		exceed the rated drive current.		

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RHPT8-8010 □ -C3-PU-_ / RHPE8-8010 □ -C3-PU-_ |



	Base			
Type NPN RHPE8-8010N-C3-PU-02				
Code P		RHPE8-8010P-C3-PU-02		
Supply	voltage	24V DC ±10% (including ripple)		
	consumption	9 11		
		4 (SI14) / NPN or PNP		
spec 3)	Load current	7 mA / per input		
Output	Signal / Type	4 (SO14) + 1 (Inzone) / NPN or PNP		
spec 4)	Load current	max.50mA per output		
Frequency of operation		40Hz		
LED		InZone / Power		
Operatin	g temperature	0+50°C		
	on class	IP67		
Cable		PUR / φ 7.7 , 2x0.5mm ² +9x0.18mm ²		
Material Housing		Aluminum + alumite processing (metal part)		
Active face		ABS+PBT (resin part)		
Weight		Body 620 g + Cable75 g × 2 m		
Remark				

- 3) Input to the RHPE8 from the host device
- 4) Output to the host device from RHPE8

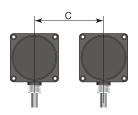
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

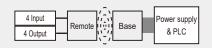
■ Surrounding metal



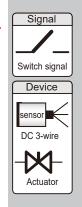




Type Code	A(mm)	B(mm)	C(mm)
RHPT8-8010 -C3-PU	50	45	200
RHPE8-8010 -C3-PU	50	45	300







Remote Coupler

 -	

4+4Switch Signals

> 3+8 Switch Signals

64+32 Switch Signals

RS-232C

CC-Link

Exclusive sensor

Terminal box Other unit

Wiring

Remote Coupler System Switch Signal

8+8 Signals Transmission / Remote · Base 64+32 Signals Transmission / Remote head · Base head

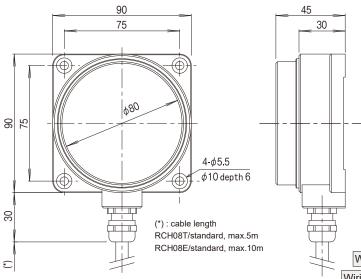


8+8 switch signals and 64+32 switch signals / Size : 90 x 90



Remote head Base head shared dimension

Remote head / Base head



Remote head:RCH08T-211 and Base head:RCH08E-211 are used for both 8+8 and 64+32 transmission system as a head.

ype Code	RCH08E-211-PU-0	2	
BaseBase head			
	Wiring 64+32	Please refer to the User's Guide.	
	Wiring 8+8	C020 / P.127	

	Remote / Remo	Remote / Remote head		
Type Code	RCH08T-211-PU-01			
Applicable 8+8	RC08T-01100	00		
Remote amplifier 64+32	RL64T-34400	00, RL64T-345	000	
Drive voltage	24V ± 1.5V DC			
Drive current	≦ 2A			
Operating distance	49mm	68mm		
Center offset	±5mm	±3mm		
Drive current	≦ 1A	≦ 2A		
Operating temperature	perating temperature 0+50°C			
Protection class IP67				
Cable	PUR / Ø7.8, 2x1.25mm ² +2x0.2mm ² with shield			
Material Housing	Aluminum + alumite processing (metal part)			
Active face	ABS+PBT (resin part)			
Weight	Body 600 g + Cable120 g × 1 m			
Remark				

A043

BaseBase head		
Type Code	RCH08E-211-PU-02	
8+8	RC08E-011 -000	
Applicable C4: 22	RL64E-333000, RL64EA-355DN-000, RL64E-	
Base amplifier 64+32	366CL-000, RL64E-366EI-000	
Supply voltage	24V DC ±5% (including ripple)	
Current consumption	≤ 4A	
Load current		
Frequency of operation		
LED		
Operating temperature	0+50°C	
Protection class	IP67	
Cable	PUR / Ø7.8, 2x1.25mm ² +2x0.2mm ² with shield	
Material Housing	Aluminum + alumite processing (metal part)	
Active face	ABS+PBT (resin part)	
Weight	Body 620 g + Cable120 g × 2 m	
Remark		

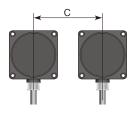
The same Remote Head or Base Head can be used both to 8 +8 or 64+32 signals transmission type. But the Remote part of 8+8 transmission type can not be used with the Base part of 64+32 transmission type. The opposite is true.

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



■ Surrounding metal

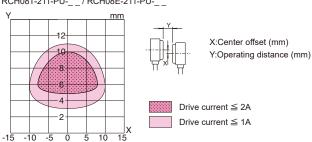
Installation notes



■ Parallel installation

Type Code	A(mm)	B(mm)	C(mm)
RCH08T-211-PU	50	45	200
RCH08E-211-PU	30	45	300

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RCH08T-211-PU-_ / RCH08E-211-PU-_

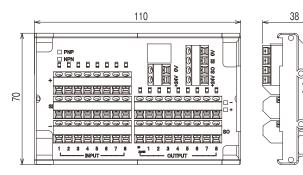


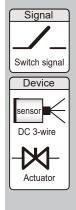
8 Input Base Remote Base Remote Power supply 8 Output amplifier Amplifie & PLC

8+8 switch signals / Size: 110x70

Remote amplifier / Base amplifier

Remote amplifier Base amplifier shared dimension





Coupler Wiring C020 / P.127

	4+4 Switch Signals
	8+8 Switch Signals
-	64+ 32 Switch Signals

Remote

Wiring

A044a

		Remote amplifier			Bas
Туре	Type NPN RC08T-011N-000 Type NPN		NPN	RC08E-0	
Code	PNP	RC08T-011P-000	Code	PNP	RC08E-0
Applicab	le Remote head	RCH08T-211-PU	Applicab	le Base head	RCH08E-
Supply	voltage	24V DC ± 10% (from Remote head)	Supply	Supply voltage	
Current	consumption	≦ 150mA	Current	consumption	≦ 150mA
Input 1)	No. of signals	8 signals (SI18)	Input 3)	No. of signals	8 signals (S
	Input logic	NPN or PNP	-	Input logic	NPN or PI
	Load current	7 mA / per input		Load current	7 mA / per
Output ²⁾	No. of signals	8 (SO18) + 1 (InZone)	Output ⁴⁾	No. of signals	8 (SO18)
	Output logic	NPN or PNP	•	Output logic	NPN or PI
	Load current	≦ 300mA/1 output	-	Load current	≦ 300mA
	Frequency of operation	100Hz		Frequency of operation	100Hz
LED		input and output signal, Inzone	LED		input and
Operatir	ng temperature	0+50℃	Operating temperature		0+50°C
Protect	ion class	IP67	Protection class		IP67
Mounting		DIN rail 32/35mm	Mounting		DIN rail 32
Material	Body	Nylon	Materia	I Body	Nylon
Weight		130 g	Weight		130 g
Remark	k		Remark	(

Applicable sensor and actuator

- Remote amplifier can connect up to 8 sensors and 8 actuators.
- -The total current consumption of Remote amplifier, sensors and actuators must not exceed 2A the drive current which is supplied by the Remote head.

Supply voltage	24V DC
Total current consumption	≦ 2A
Residual voltage	
Leakage current	

- 1) Input from sensor to Remote amplifier
- 3) Input from the controller to Base amplifier 4) Output from Base amplifier to the contller
- 2) Output from Remote amplifier to actuators

Base amplifier with Enable signal

The Base amplifier with an enable signal is also available. It stops the output of detection signals from Base amplifier to controller and control signals from Remote amplifier to actuators.

Base amplifier RC08E-011N-000

24V DC ±10% (including ripple)

input and output signal, Inzone

RC08E-011P-000 RCH08E-211-PU

8 signals (SI1...8)

7 mA / per input

8 (SO1...8) + 1 (InZone)

≤ 300mA/1 output

DIN rail 32/35mm

NPN or PNP

NPN or PNP

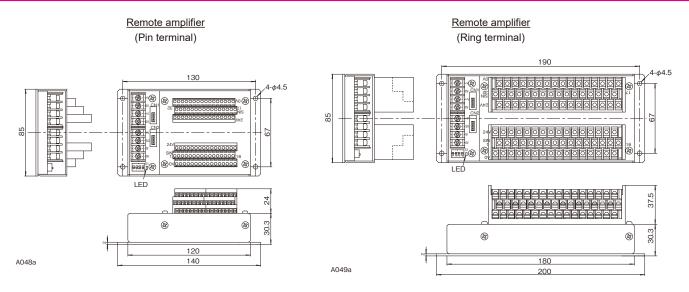
Enable signal type: RC08EA-011N-000 RC08EA-011P-000

Since the input signal No. 8 is assigned for Enable signal, the usable control signal from the controller is up to 7.



Wiring Diagon refer to the Ligaria Cuide

64+32 switch signals



		Wiring Please refer to the User's Guide.
	Remote amplifier (Pin terminal)	Remote amplifier (Ring terminal)
Type Code NPN	RL64T-344N-000	RL64T-345N-000
PNP	RL64T-344P-000	RL64T-345P-000
Applicable Remote head	RCH08T-211-PU	RCH08T-211-PU
Applicable	RL64E-333 -000、RL64EA-355DN-000、	RL64E-333 -000、RL64EA-355DN-000、
Base amplifier	RL64E-366CL-000、RL64E-366EI-000	RL64E-366CL-000、RL64E-366EI-000
Input logic	NPN or PNP	NPN or PNP
No. of Input signals	32 signals	32 signals
Load current 7mA / per input 7mA / per input		7mA / per input
Frequency of operation 20Hz 20Hz		20Hz
Current consumption $\leq 70 \text{mA}$ $\leq 70 \text{mA}$		≦70mA
LED	Ready	Ready
Material Housing	SPCC-SD, Glass-epoxy	SPCC-SD, Glass-epoxy
Cover plate		
Connection sensor	Terminal block: 3 pole x 32	Terminal block: 3 pole x 32
Remote head Terminal block: 4 pole x 1 Terminal block: 4 pole x 1		Terminal block: 4 pole x 1
Input/Output unit Connector: e-con, 4P x 2 Connector: e-con, 4P x 2		Connector: e-con, 4P x 2
Operating temperature 0+50°C 0+50°C		0+50°C
Weight	620 g	1,040 g
Remark		

Applicable sensor and actuator

- Remote amplifier RL64T-344/345 can connect up to 32 detectors directly without Input unit.
- Please use a sensor which works definitely in the condition described below.

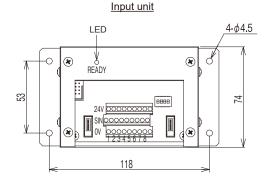
Supply voltage	24V DC
Total current consumption	≦ 2A
Residual voltage	≦6V
Leakage current	≦1mA

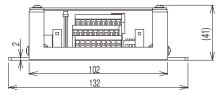
-The total of the current consumption of all units being connected to Remote head - Remote amplifier, an input and output unit, sensors and actuators - must not exceed 2A the drive current which is supplied by the Remote head.

Notes

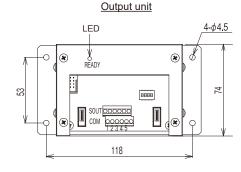
 Prepare the cable, 4 conductors and outer diameter phi 1.35 ... 1.6 mm to connect an input unit and an output unit. An insulation displacement con nector is attached to each unit.

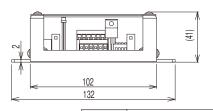
64+32 switch signals





A052 Wiring Please refer to the User's Guide.





A053 Wiring Please refer to the User's Guide.

	Input unit	
Type Code NPN	RLX08-322N	
PNP	RLX08-322P	
Input logic	NPN or PNP	
No. of Input signals	8 signals	
Load current	7mA / per input	
Current consumption	≤ 40mA	
Frequency of operation	20Hz	
LED	Ready	
Material Housing	SPCC-SD	
Cover plate	Acrylic resin	
Connect sensor	Terminal block: 3 x 8 pole	
Actuator		
Input/Output unit	Connector: e-con, 4-pin x 2	
Operating temperature	0+50°C	
Weight	350 g	
Remark		

Output unit	
Type Code NPN	RLY04-322N
PNP	RLY04-322P
Output logic	NPN or PNP
No. of Output signals	5 signals (data : 4, Data valid : 1)
Load current	max. 200mA per output
Current consumption	≤ 40mA
Frequency of operation	20Hz
LED	Ready
Material Housing	SPCC-SD
Cover plate	Acrylic resin
Connect sensor	
Actuator	Terminal block: 3 x 4 pole
Input/Output unit	Connector: e-con, 4-pin x 2
Operating temperature	0+50°C
Weight	350 g
Remark	

Applicable sensor and actuator

- The input unit connects up to 8 sensours. It can connect up to 4. (Max 64 sensors can be connected to the amplifier and input units.)
- The output unit connects up to 4 actuators. It can connect up to 8
- Please use a sensor which works definitely in the condition described below.

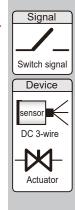
Supply voltage	24V DC
Total current consumption	≦ 2A
Residual voltage	≦ 6V
Leakage current	≦1mA

-The total of the current consumption of all units being connected to Remote head - Remote amplifier, an input and output unit, sensors and actuators - must not exceed 2A the drive current which is supplied by the Remote head.

Notes

- Prepare the cable, 4 conductors and outer diameter phi 1.35 \dots 1.6 mm to connect an input unit and an output unit.

An insulation displacement connector is attached to each unit.



Remote Coupler

4+4 Switch Signals

Switch Signa

64+32Switch Signals

RS-232C

CC-Link

DeviceNet

Exclusive sensor

Other unit

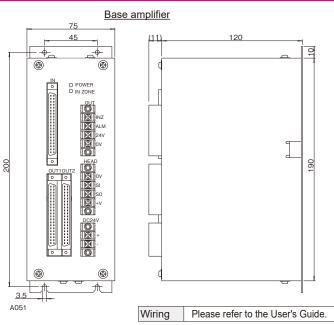
Wiring

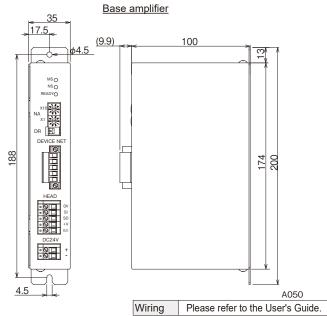
Remote Coupler System Switch Signal

64+32 Switch Signals type (Amplifier separation type) / Base amplifier



64+32 switch signals





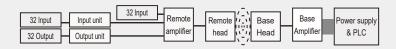
Base amplifier (Parallel I/O)		
Type NPN	RL64E-333N-000	
Code PNP	RL64E-333P-000	
Applicable Base head	RCH08E-211-PU	
Applicable	RL64T-344000	
Remote amplifier	RL64T-345000	
Input logic	NPN (current sink), PNP (current source)	
No. of Input signals 2)	32	
Load current	7mA / per input	
Output logic	NPN (current sink), PNP (current source)	
No. of Output signals1)	67 (sensor: 64, InZone: 2, Short detection:1)	
Load current	max. 20mA per output	
Supply voltage	24VDC ± 5%	
Current consumption	≦ 150mA	
Frequency of operation	20Hz	
LED	Power(Green), Ready(Yellow)	
Material	Housing: SPCC-SD (steel plate)	
Connection Power	Terminal block : 2 pole x 1	
Head	Terminal block : 4 pole x 1	
Input	Square connector : 40-pin x 1	
Output	Square connector : 40-pin x 2	
Operating temperature	0+50°C	
Weight	1,300 g	
Remark	Connectors are supplied with Base amplifier	

Base amplifier (DeviceNet)		
Type DeviceNet	RL64EA-355DN-000	
Code		
Applicable Base head	RCH08E-211-PU	
Applicable	RL64T-344 -000	
Remote amplifier	RL64T-345 -000	
Communicating Function	Remote I/O (Poll)	
Baud rate	500k/250k/125k Baud	
	Set up by DIP switch	
Node address	0 ~ 63	
	Set up by rotary switch	
No. of Input signals 1)	64+1 Ready (9 byte)	
No. of Output signals 2)	32 (4 byte)	
Supply voltage	24VDC ± 5%	
Current consumption	≦ 150mA	
LED	MS:Red/Green,NS:Red/Green,Ready : Yellow	
Material	Housing : SPCC-SD (steel plate)	
Connection Power	Terminal block : 2 pole x 1	
Head	Terminal block : 5 pole x 1	
DeviceNet	Open Connector	
Operating temperature	0+50℃	
Weight	550 g	
Remark		

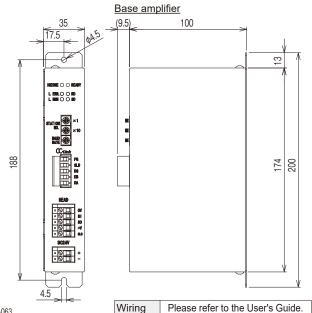
- 1) No. of output signal from Remote system
- 2) No. of input signal to Remote system

Please refer to the manual for more information.

The setting and the like more information of a base amplifier, please refer to the instruction manual.

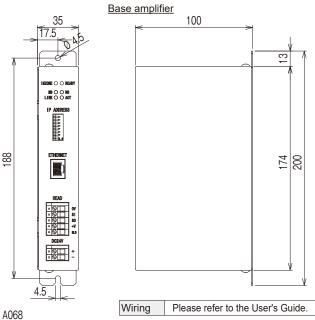


64+32 switch signals

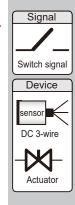


A063	Wiring Please refer to the User's Guide.		
	Base amplifier (CC-Link)		
Type CC-Link	RL64E-366CL-000		
Code			
Applicable Base head RCH08E-211-PU			
Applicable	RL64T-344000		
Remote amplifier	RL64T-345000		
Protocol	CC-Link (Ver. 1.10)		
Station type	Remote device station		
Occupied station	3 stations (RX/RY 96 each bits, RWr/RWw		
	each 12 words)		
Baud rate	156k/625k/2.5M/5M/10M bps		
	(Set up by rotary switch)		
Station No.	162(Set up by rotary switch)		
No. of Input signals 1)	64 (RXn0 RX(n+3)F) + 1 INZONE		
No. of Output signals 2)	32 signals (RYn0 RX(n+1)F) *1		
Supply voltage	24VDC ± 5% (Ripple less than 1V)		
Current consumption	≦ 150 mA		
Material	Housing : SPCC-SD (steel plate)		
Connection Power	Terminal block : 2 pole x 1		
Head	Terminal block : 5 pole x 1		
CC-Link	2 piece terminal block : 5 pole x 1		
Operating temperature	0+50°C		
Weight	570 g		
Remark			

*1 n : Address	that was	allocated	to the	master	station	with setting	
station number	r						



A000		
	Base amplifier (EtherNet/IP)	
Type EtherNet/IP	RL64E-366EI-000	
Code		
Applicable Base head	RCH08E-211-PU	
Applicable	RL64T-344000	
Remote amplifier	RL64T-345000	
Protocol	EtherNet/IP	
Communicating Function	Remote I/O function (Cyclic)	
Communication method	Full duplex / half duplex (Automatic negotiation)	
Baud rate	100Mbps/10Mbps (Automatic negotiation)	
IP Address	Set by DIP switch, DHCP and other	
No. of Input signals 1)	64 + 1 Inzone (9 byte)	
No. of Output signals 2)	32 (4 byte)	
Supply voltage	24VDC ± 5% (Ripple less than 1V)	
Current consumption	_≦ 150 mA	
Material	Housing : SPCC-SD (steel plate)	
Connection Power	Terminal block : 2 pole x 1	
Head	Terminal block : 5 pole x 1	
Ethernet	RJ 45 female Connector x 1	
Operating temperature	0+50°C	
Weight	560 g	
Remark		



Remote Coupler

4+4 Switch Signals

Switch Signa

64+32Switch Signals

RS-232C

CC-Link

DeviceNet

Exclusive sensor

Terminal box Other unit

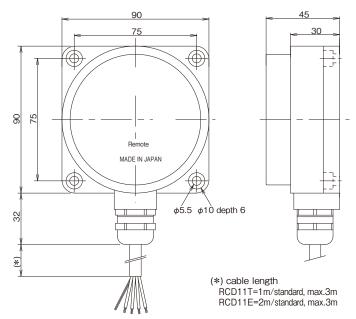
Wiring

Remote Coupler System Data Signal

RS-232C / Size : 90 x 90

Operating distance 3...10mm

Remote Base shared dimension



Wiring		
+24V	Red	
0 V	Black	
TXD	White	
RXD	Green	
GND	Shield	

Δ045

	Remote				
Type RS-232C Code	RCD11T-211-PU-01				
Drive voltage	24V ± 1.5V DC				
Drive current	<u>≦</u> 1A				
Operating distance	310mm	46mm			
Center offset	±5mm	±5mm			
Drive current	≦ 500mA	≦ 1A			
Operating temperature	0+50°C				
Protection class	IP67				
Cable	PUR / Ø7.6 , 4x0.75mm ² with shield				
Material Housing	Aluminum + alumite processing (metal part)				
Active face	ABS+PBT (resin part)				
Weight	Body 600 g + Cable90 g × 1 m				
Remark					

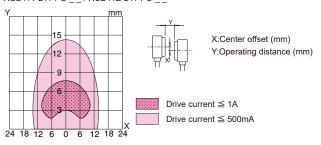
A045				
	Base			
Type RS-232C Code	RCD11E-211-PU-02			
Supply voltage	24V DC ±5% (including ripple)			
Current consumption	<u>≤</u> 3A			
Communication Signal	RS-232C, Full duplex, asynchronous			
Speed	480038400 bps, without data checking			
Delay	≦ 20µsec			
Operating temperature	0+50°C			
Protection class	IP67			
Cable	PUR / Ø7.6 , 4x0.75mm ² with shield			
Material Housing	Aluminum + alumite processing (metal part)			
Active face	ABS+PBT (resin part)			
Weight	Body 620 g + Cable90 g × 2 m			
Remark				

Applicable sensor and actuator

Supply voltage	24V DC
Total current consumption*	≦ 1A
Residual voltage	
Leakage current	

^{*}The total of current consumption of all devices connected to Remote must not exceed 2A the drive current.

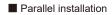
Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RCD11T-211-PU-__ / RCD11E-211-PU-__



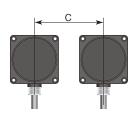
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

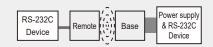


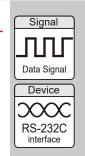






Type Code	A(mm)	B(mm)	C(mm)
RCD11T-211-PU	50	45	300
RCD11E-211-PU	50	45	300





Remote Coupler

	· · · · · · · · · · · · · · · · · · ·

3+8 Switch Signals

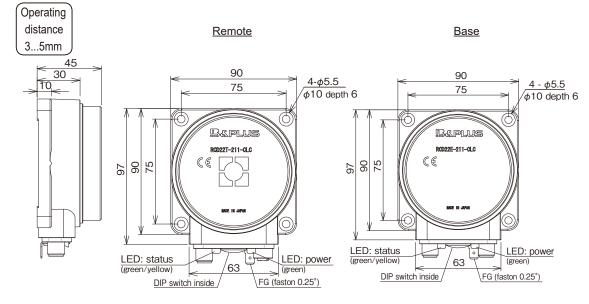
64+32 Switch Signals

RS-232C

CC-Link

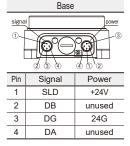
unused

CC-Link / Size : 97 x 90



Remote				
signa ①~	600	power 1		
Pin	Signal	Power		
1	SLD	+24V		
2	DB	unused		
3	DG	24G		

4



Remote				
Type Code CC-Link	RCD22T-211-CLC			
Drive voltage	24V ± 1.5V DC			
Drive current	≦ 2A			
Operating distance	35mm			
Center offset	±4mm			
Operating temperature	0+50°C			
Protection class	IP 67			
Connector 1) Signal	M12 / 4-pin male (Option cable :VA-4DSX5CCG4[5m])			
Power	M12 / 4-pin female (Option cable :TM-4DBX5HG2-1/3[5m])			
Material Housing	Aluminum + alumite processing (metal part)			
Active face	ABS+PBT (resin part)			
Weight	800g			
Included	Ferrite core clamp ²⁾ (Gray x 2 · White x 1)			

- 1) For connector cable to be used, please choose from the CC-Link Association recommended products.
- 2) For CE marking, be sure to attach the ferrite core clamp.

Base				
Type Code CC	C-Link	RCD22E-211-CLC		
Supply voltage		24V DC ±5% (including ripple)		
Current consu	ımption	≦ 3A		
Signal		CC-Link		
transmission	Speed	156K10M bps (set up by DIP switch)		
	Start-up time	≤ 2 sec. ³⁾		
Operating temperature		0+50°C		
Protection cl	ass	IP 67		
Connector 1)	Signal	M12 / 4-pin male (Option cable :VA-4DSX5CCG4[5m])		
	Power	M12 / 4-pin male (Option cable :TM-4DSX5HG2-1/3[5m])		
Material Ho	ousing	Aluminum + alumite processing (metal part)		
Active face		ABS+PBT (resin part)		
Weight		800g		
Included		Ferrite core clamp ²⁾ (Gray x 2 · White x 1)		
3) It is the start up time of Remote system.				

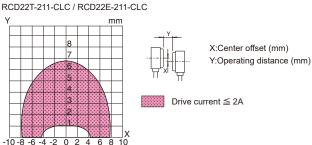
The start up time of CC-Link is varied by the system.

Baudrate

Ī	bps	SW1	SW2	SW3	
	156K	OFF	OFF	OFF	
	625K	ON	OFF	OFF	
	2.5M	OFF	ON	OFF	
	5M	ON	ON	OFF	
	10M	OFF	OFF	ON	

- For this unit, there is no need to set the station type or the number of occupied station. It can be used just setting the baudrate and the built-in terminator by the DIP-switch

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)



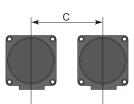
Notes

- It is recommended to install RCD22 in metal in order to reduce the influence of self-heating.
- Be sure to connect "Terminal resister" between DA and DB onh te unit on both ends on CC-Link. Two termination resistors are required for each side, remote sdie and Base side.
- Please prepare your cable and connectors.

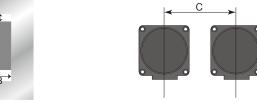
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

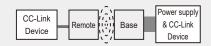
■ Surrounding metal

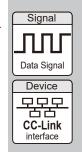


■ Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RCD22T-211-CLC	50	45	300
RCD22E-211-CLC	30	45	300





Remote Coupler

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4+4 Switch Signals

o+o Switch Signal

64+32 Switch Signals

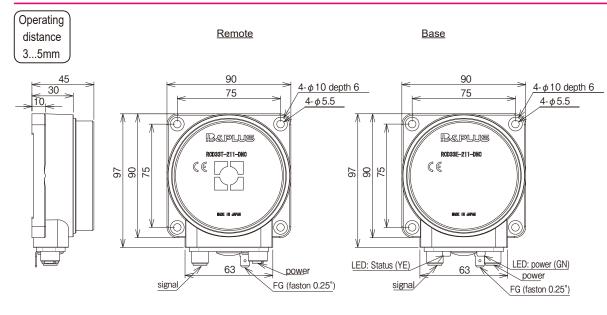
RS-232C

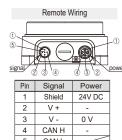
CC-Link

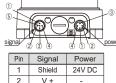
DeviceNet

DeviceNet / Size: 97 x 90

Data Signal







Base Wiring

_ (2 3 4	4 1 2
Pin	Signal	Power
1	Shield	24V DC
2	V +	-
3	V -	0 V
4	CAN H	-
5	CAN L	

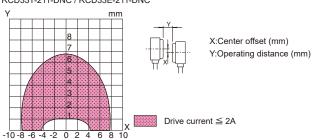
	Remote				
Type Code DeviceNet	RCD33T-211-DNC				
Drive voltage	24V ± 1.5V DC				
Drive current	<u>≤</u> 2A				
Operating distance	35mm				
Center offset	±4mm				
Drive current	≦ 2A				
Operating temperature	0+50°C				
Protection class	IP 67				
Connector 1) Signal	M12 / 5 pin male (Option cable : VA-5DSX5DVG5-BL[5m])				
Power	M12 / 4 pin female (Option cable : TM-4DBX5HG2-1/3[5m])				
Material Housing	Aluminum + alumite processing (metal part)				
Active face	ABS+PBT (resin part)				
Weight	800 g				
Included	Ferrite core clamp ²⁾				
IIIciuucu	included Femile core clamp 27				

1) Please use the connector cable that conforms to the specification of DeviceNet. 2) For CE marking, be sure to attach the ferrite core clamp.

Notes

- Communication speed is 125K....500K bps.
- Be sure to connect the terminal resister on both ends of DeviceNet. Each two terminal resistors are required on Remote side and Base side. Termination resistor should be prepared by an user.
- Please prepare your cable and connectors.
- It is recommended to install RCD33 in metal in order to reduce the influence of self-heating.

Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RCD33T-211-DNC / RCD33E-211-DNC



	Base				
Type Code DeviceNet	RCD33E-211-DNC				
Supply voltage	24V DC ±5% (including ripple)				
Current consumption	≦ 3A				
Signal	DeviceNet (CAN Bus)				
transmission Delay	<u>≤</u> 0.5μsec.				
Start-up time	≦ 2 sec. ³⁾				
Operating temperature	0+50℃				
Protection class	IP 67				
Signal	M12 / 5 pin male (Option cable : VA-5DSX5DVG5-BL[5m])				
Connector 1) Power	M12 / 4 pin male (Option cable : TM-4DSX5HG2-1/3[5m])				
Material Housing	Aluminum + alumite processing (metal part)				
Active face	ABS+PBT (resin part)				
Weight	800 g				
Included	Ferrite core clamp ²⁾				

3) It is the start up time of Remote system.

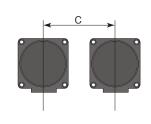
The start up time of DeviceNet is varied by the system.

Installation notes

■ Surrounding metal

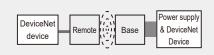
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

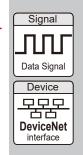




■ Parallel installation

Type Code	A(mm)	B(mm)	C(mm)
RCD33T-211-DNC	50	45	300
RCD33E-211-DNC	30	45	300





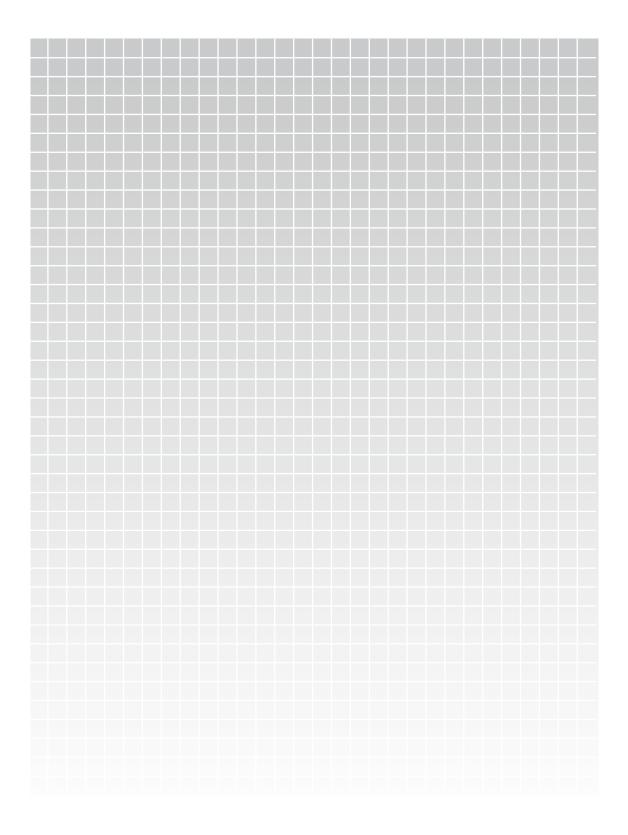
Remote Coupler

4+4 Switch Signals

001:1

DeviceNet

Devicemen



	Devices Cumply	Parallel	98
Remote Power Supply System	Power Supply	Overlap	100
	Charging	Parallel	102

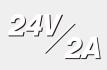
Remote Power Supply

Power Supply Parallel

Power Supply Overlap

Charging Parallel

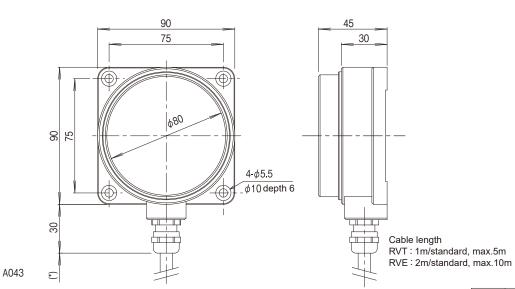




Parallel coupling / Size: 90 x 90

Operating distance 4...9mm

Remote Base shared dimension



Wiring Brown:+ / Blue:-

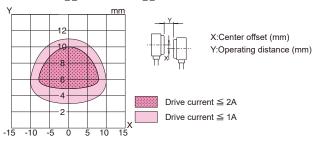
	R	Remote			Base
Type Code	e Code RVT-211-22-PU-01		Type Code	RVE-211-2-PU-02	
Drive voltage	24V ± 1.5V E	200		Cupply voltage	24V DC ±5% (including ripple)
	·			Supply voltage	
Drive current	<u>≤</u> 2A			Current consumption	≦4A
Operating distance	49mm	68mm		Load current	
Center offset	±5mm	±3mm		Frequency of operation	
Drive current	<u>≦</u> 1A	≦ 2A		LED	
Operating temperature	0+50°C			Operating temperature	0+50°C
Protection class	IP67			Protection class	IP67
Cable	PUR / Ø7.8, 2	2x1.25mm ² +2x0.2m	m ² with shield	Cable	PUR / Ø7.8, 2x1.25mm ² +2x0.2mm ² with shield
Material Housing	Aluminum +	alumite processing	(metal part)	Material Housing	Aluminum + alumite processing (metal part)
Active face ABS+PBT (resin part)		Active face	ABS+PBT (resin part)		
Weight	Body 600 g -	+ Cable120 g × 1 n	ı	Weight	Body 620 g + Cable120 g × 2 m
Remark	2 (Black,Whit	te:0.2mm ²) of the 4	conductor is not used.	Remark	2 (Black,White:0.2mm ²) of the 4 conductor is not used.

Applicable sensor and actuator

Supply voltage	24V DC
Total current consumption	≦ 2A
Residual voltage	
Leakage current	

The total of current consumption of all devices connected to Remote must not exceed 2A the drive current.

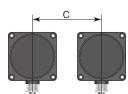
Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount) RVT-211-22-PU-_ / RVE-211-2-PU-_

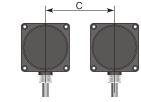


Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

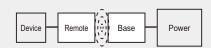
■ Surrounding metal



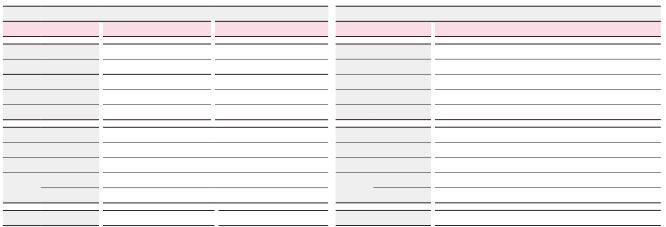


■ Parallel installation

Type Code	A(mm)	B(mm)	C(mm)
RVT-211-22-PU	,	,	200
RVE-211-2-PU	50	45	300







Remote Power Supply

Power Supply Parallel

Power Supply Overlap

Charging Parallel



Overlap coupling / Size : M30

Remote Base 110.5

A054

Wiring Brown:+ / Blue:-

	Remote		Base		
Type Code	RVTI-030-21-PU-01	Type Code	RVEI-030-2-PU-02		
Drive voltage	24V ± 1.5V DC	Supply voltage	24V DC ±10% (including ripple)		
Drive current	≦ 1A	Current consumption	≦ 3A		
Operating distance	310mm	Load current			
Center offset		Frequency of operation			
Drive current	≦ 1A	LED			
Operating temperature	0+50°C	Operating temperature	0+50°C		
Protection class	IP67	Protection class	IP67		
Cable	PUR / φ 6.2 , 2x0.75mm ²	Cable	PUR / φ 6.2 , 2x0.75mm ²		
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass		
Active face	ABS + PBT	Active face	ABS + PBT		
Weight	Body 200 g + Cable50 g × 1 m	Weight	Body 180 g + Cable50 g × 2 m		
Remark		Remark			

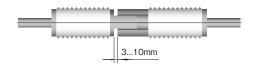
Applicable sensor and actuator

Supply voltage	24V DC
Total current consumption	≦ 1A
Residual voltage	
Leakage current	

The total of current consumption of all devices connected to Remote must not exceed 1A the drive current.

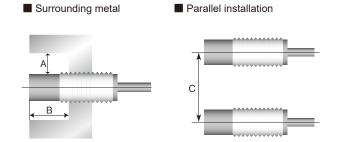
Operating distance

Operating distance of the overlap coupling product is as shown below.



Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type Code	A(mm)	B(mm)	C(mm)
RVTI-030-21-PU	30	45	35
RVEI-030-2-PU	30	45	35

Overlap coupling / Size : ϕ 40



<u>Base</u>

(110)

Remote

(110)

A055

Wiring Brown:+ / Blue:-

(2000)

Remote		
Type Code	RVTI-C01-21-PU-01	
Drive voltage	24V ± 1.5V DC	
Drive current	<u>≤</u> 1A	
Operating distance	0 mm (when over lapped)	
Center offset		
Drive current	≦ 1A	
Operating temperature		
Protection class	IP67	
Cable	PUR / φ 6.2, 2x0.75mm ²	
Material Housing	Polyamide 6.6	
Active face	Polyamide 6.6	
Weight	Body 210 g + Cable50 g × 1 m	
Remark		

(1000)

Base		
Type Code	RVEI-C01-2-PU-02	
Supply voltage	24V DC ±10% (including ripple)	
Current consumption	≤ 3A	
Load current		
Frequency of operation		
LED		
Operating temperature	0+50°C	
Protection class	IP67	
Cable	PUR / φ 6.2, 2x0.75mm ²	
Material Housing	Polyamide 6.6	
Active face	Polyamide 6.6	
Weight	Body 200 g + Cable50 g × 2 m	
Remark		

Power Supply Parallel Power Supply

Remote Power Supply

Overlap Charging

Applicable sensor and actuator

Supply voltage	24V DC
Total current consumption	≦ 1A
Residual voltage	
Leakage current	

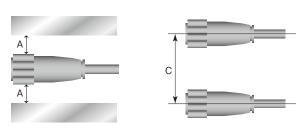
The total of current consumption of all devices connected to Remote must not exceed 1A the drive current.

Installation notes

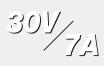
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Surrounding metal





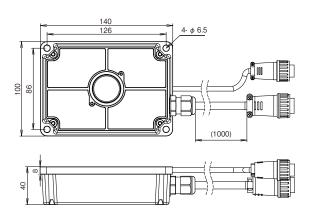
Type Code	A(mm)	B(mm)	C(mm)
RVTI-C01-21-PU	20		43
RVEI-C01-2-PU	20		43



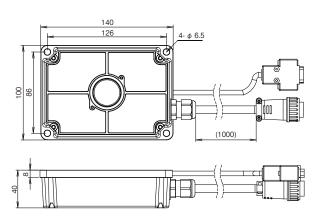
Parallel coupling / Size: 140 x 100 x 40

Operating distance 0...10mm

Passive Head



Active Head



Wiring	Please refer to the User's Guide.

	Passive Head
Type Code	RCS240PH
Passive head	RCS210-PB24
Output voltage	Charging unit reference
Output current	Charging unit reference
Operating distance	010mm
Center offset	≦ 10mm (Refer to following)
Output current	Charging unit reference
Operating temperature	0+50°C
Protection class	IP65
Connection	Active : Round 3-pin, Signal : Round 5-pin Each connector cable included (1m)
Material Active face	PPS
Back	Aluminum
Weight	1.2Kg
Remark	

	Active Head		
Type Code	RCS240AH		
Active Head	RCS240-AC1		
Power supply	Power Supply unit reference		
Current consumption	Power Supply unit reference		
Load current			
Frequency of operation			
LED	<u></u>		
Operating temperature	0+50°C		
Protection class	IP65		
Connection	Active : Round 3-pin, Signal : D-sub 9-pin Each connector cable included (1m)		
Material Active face	PPS		
Back	Aluminum		
Weight	1.2Kg		
Remark			

About laws

■High frequency utilization equipment

You will have to apply in accordance with high frequency utilization equipment authorization procedure by the Ministry of Internal Affairs and Communications. For more information, please refer to the website of the Telecommunications Minis-

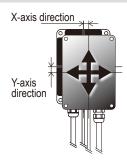
try of Internal Affairs and Communications.

■Please this product is used in Japan

Because it is Japan specification, it can not be used outside of Japan. When used outside of Japan, I guess we assume any liability You.

■CE not acquired

Center off-set of Passive head and Active head



The permissible center off-set of the feed head and charging head, please be installed so that the total (X + Y) axis deviation of the width of the X-axis \cdot Y-axis is the following table.

For example, X-axis equals a 10mm, Y-axis 0mm

If X-axis is 5mm, Y-axis is less than 5mm.

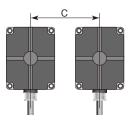
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal



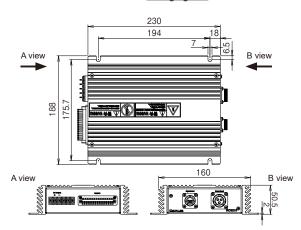
■ Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RCS240PH	100	40	300
RCS240AH	100	40	300



Charging unit



Power Supply unit B view A view 292 B view A view

Wiring	Please refer to the User's Guide

	Charging unit			
Type Code		RCS210-PB24		
Charging	unit	RCS240PH		
Output vo	oltage	≤ 30V (It varies depending on battery Temperature)		
Output cu	urrent	≤ 7A (It varies depending on battery voltage)		
Input		Voltage monitor request		
Output		Voltage monitor signal, charging signal, intermittent charging signal, Battery error signal		
Cooling n	nethod	Natural air cooling		
Protection circuit		Input: Overvoltage protection Battery: High temperature / low temperature protection, not connected, reverse connection protection		
Operating	temperature	0+40°C		
Protection	n class	IP20		
Connection F	Passive	Round 3-pin connector		
S	Signal	Round 5-pin connector		
Terminal block Battery		Battery connection(2-pole), Thermistor connection(2-pole), Terminal width 6.2mm or less, Terminal screw size M3		
Material H	Housing	Aluminum		
Weight		1.6Kg		
Remark				

Power Supply unit			
Type Code	RCS240-AC1		
Power Supply unit	RCS240AH		
Supply voltage	100V AC / 200V AC		
Current consumption	4A		
Input	Start-up signal		
	Voltage monitor signal, Inzone signal, charging		
Output	signal,Intermittent charging signal, Battery error		
	signal		
Cooling method	Forced air cooling		
LED	Status display of input and output signal		
Operating temperature	0+50°C		
Protection class	IP20		
Connection Supply	Round 3-pin connector		
Signal	D-Sub 9-pin connector		
Power	3P inlet		
Material Housing	SECC		
Weight	2.6Kg		
Remark			
. todirt			

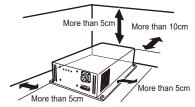
Available battery

This product is a wireless charging system designed for battery charging only.

Application battery	lead battery
Battery voltage	24V DC
Battery charging current	≧ 7A

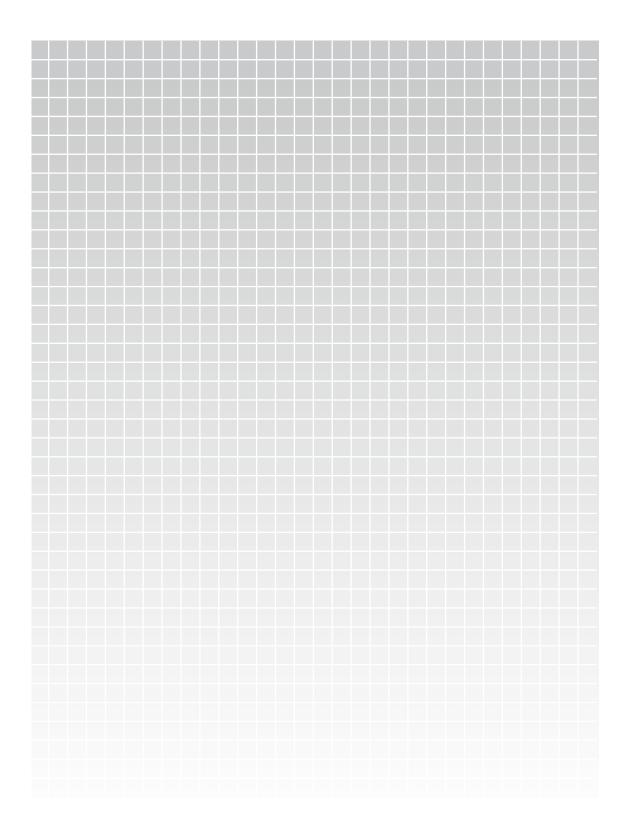
Installation notes

In order to obtain a good cooling effect, please keep as on the right ,below the separation distance between the surrounding body so as not to block the air flow.



Remote **Power Supply**

Charging Parallel



Accessories Table of contents

	Exclusive sensor	RFD (DC 2-wire Detector type)	106
		RXD (Exclusive Detector type)	107
Accessories	Terminal Box	Standard type	108
		Waterproof type	110
		Connector type	112
	AC Conversion Amplifier		114

Accessories

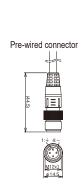
Exclusive sensor

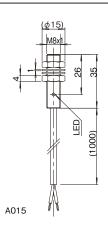
Terminal box Other unit

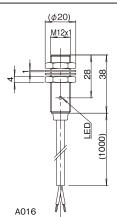
Exclusive Proximity Sensor for Remote System

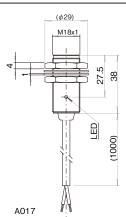
Exclusive proximity sensor with LED / RFD series

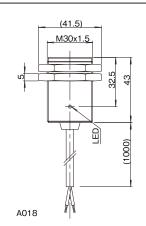
Applicable Transmitter	Transmitter of DC 2-wire detected	or type(Ref. P.4865)		
Rated operating distance	1.5mm	2mm	5mm	10mm
Assured operating distance	01.2mm	01.6mm	04mm	08mm
Size of Detector	M8	M12	M18	M30



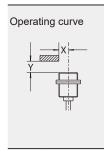


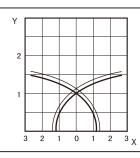


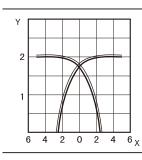


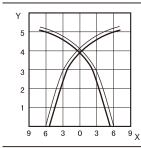


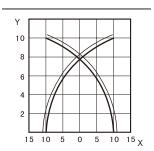
Type Code	RFD-0801-PU-01	RFD-1202-PU-01	RFD-1805-PU-01	RFD-3010-PU-01
Applicable Transmitter	RPTxxxxD	RPTxxxxD RS_T-2xxD-S04	RPTxxxxD RS_T-2xxD-S04	RPTxxxxD RS_T-2xxD-S04
Frequency of operation	30Hz	30Hz	30Hz	30Hz
LED	Function indication	Function indication	Function indication	Function indication
Operating temperature	0+50°C	0+50°C	0+50°C	0+50°C
Protection class	IP67	IP67	IP67	IP67
Material Housing	Stainless steel	Nickel plated brass	Nickel plated brass	Nickel plated brass
Active face	Nylon 12	Nylon 12	Nylon 12	Nylon 12
Cable	PUR / φ 3.3 , 2x0.14mm ²	PUR / φ 5 , 2x0.34mm ²	PUR / φ 5 , 2x0.34mm ²	PUR / φ 5 , 2x0.34mm ²
Weight	25 g +15 g x 1 m	30 g +25 g x 1 m	50 g +25 g x 1 m	110 g +25 g x 1 m
Pre-wired connector type		RFD-1202-PU-CP1.0	RFD-1805-PU-CP1.0	RFD-3010-PU-CP1.0







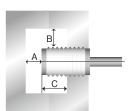




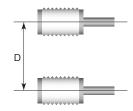
Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Surrounding metal



■ Parallel installation

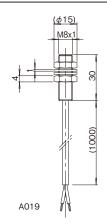


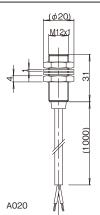
RFD (with LED)	RXD (without LED)	A(mm)	B(mm)	C(mm)	D(mm)
RFD-0801-PU	RXD-0801-PU	5	4	0	15
RFD-1202-PU	RXD-1202-PU	8	6	0	20
RFD-1805-PU	RXD-1805-PU	20	9	0	35
RFD-3010-PU	RXD-3010-PU	40	15	0	70

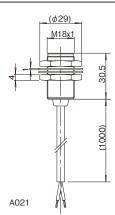
Exclusive proximity sensor without LED / RXD series

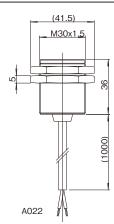
Applicable Transmitter	Transmitter of Exclusive detector type (Ref. P.6669)			
Rated operating distance	1.5mm	2mm	5mm	10mm
Assured operating distance	01.2mm	01.6mm	04mm	08mm
Size of Detector	M8	M12	M18	M30



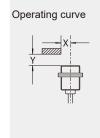


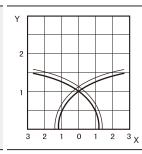


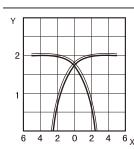


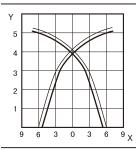


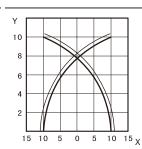
Type Code	RXD-0801-PU-01	RXD-1202-PU-01	RXD-1805-PU-01	RXD-3010-PU-01
Applicable Transmitter	RXT-xxxx	RXT-xxxx	RXT-xxxx	RXT-xxxx
	RXT8-xxxx	RXT8-xxxx	RXT8-xxxx	RXT8-xxxx
Frequency of operation	25Hz	25Hz	25Hz	25Hz
LED	No	No	No	No
Operating temperature	0+50°C	0+50°C	0+50°C	0+50°C
Protection class	IP67	IP67	IP67	IP67
Material Housing	Stainless steel	Nickel plated brass	Nickel plated brass	Nickel plated brass
Active face	Nylon 12	Nylon 12	Nylon 12	Nylon 12
Cable	PUR / φ 3.3 , 2x0.14mm ²	PUR / φ 5 , 2x0.34mm ²	PUR / φ 5 , 2x0.34mm ²	PUR / φ 5 , 2x0.34mm ²
Weight	15 g +15 g x 1 m	15 g +25 g x 1 m	35 g +25 g x 1 m	90 g +25 g x 1 m
Pre-wired connector		RXD-1202-PU-CP1.0	RXD-1805-PU-CP1.0	RXD-3010-PU-CP1.0











Accessories

Exclusive sensor

Terminal box Other unit

See P.106 for installation notes.

How to order detector/transmitter cable molded type

An exclusive sensor RXD and a transmitter RXT can be supplied as a product which is pre-wired by one cable.



Specify size and cable length of Detector and Transmitter to order.

 RXD18 / RXT12 - PU-1.0

 Size of Detector 08 = M8
 Size of Transmitter 12 = M12
 Cable length 0.5 = 50cm 1.0 = 1m (standard)

 18 = M12
 1.0 = 1m (standard)

 18 = M18
 1.5=1.5m

 30 = M30
 2.0=2m

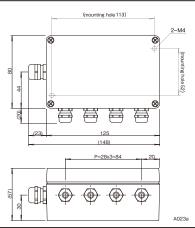
Accessories

Terminal Box

Standard type **Wiring Transmitter and Detectors**

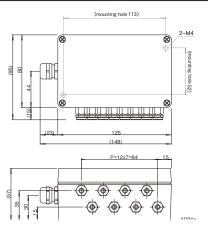
Terminal Box / Standard type for DC 3-wire and DC 2-wire Detector type

Number of Detector 4 detectors

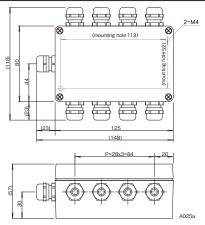


Type Code	RPK-2102	
Material Body Aluminum die casting		
Gasket	Neoprene rubber	
Protection class	IP65	
Terminal block for Transmitter 6 pole x 2, for Detector 8 pole x 3		
Cable gland	for Transmitter PG9 x 1, for Detector PG7 x 4	
Changeover SW1	Changeover NPN/PNP	
Switch SW2	Changeover 3-wire/2-wire	
Applicable cable outer diameter	φ 26.5mm	
Mounting	M4 allen screw x 2	
Weight	600 g	

Number of Detector 8 detectors



8 detectors

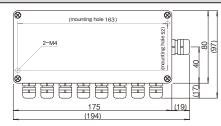


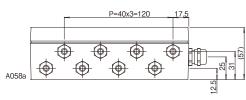
Type Code	RPK-2101	RPK-2103	
Material Body Aluminum die casting		Aluminum die casting	
Gasket	Neoprene rubber	Neoprene rubber	
Protection class	IP65	IP65	
Terminal block	for Transmitter 6 pole x 2, for Detector 8 pole x 3	for Transmitter 6 pole x 2, for Detector 8 pole x 3	
Cable gland	for Transmitter PG9 x 1, for Detector M8 x 8	for Transmitter PG9 x 1, for Detector PG9 x 8	
Changeover SW1	Changeover NPN/PNP	Changeover NPN/PNP	
Switch SW2	Changeover 3-wire/2-wire	Changeover 3-wire/2-wire	
Applicable cable outer diameter	φ 35.5mm	φ 48mm	
Mounting	M4 allen screw x 2	M4 allen screw x 2	
Weight	600 g	600 g	

RPK-21

Terminal Box / Standard type for DC 2-wire and Exclusive Detector type

Number of Detector 8 detectors





Type Code	RFK-3101	
Material Body	Aluminum die casting	
Gasket	Neoprene rubber	
Protection class	IP65	
Terminal block	for Transmitter 12 pole x 1, for Detector 12 pole x 1	
Cable gland	for Transmitter PG9 x 1, for Detector PG7 x 8	
Changeover SW1		
Switch SW2		
Applicable cable outer diameter	φ 26.5mm	
Mounting	M4 allen screw x 2	
Weight	800 g	



Accessories

Terminal box Other unit

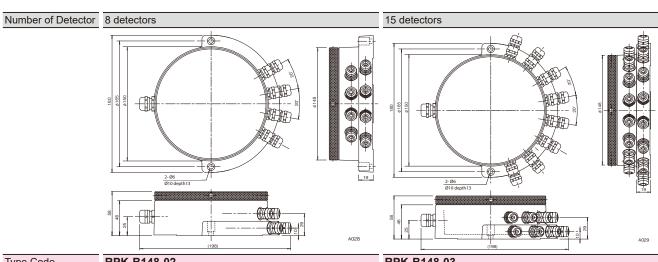
- These products are the terminal box for connecting Transmitter and Detector.
- The blank plugs are supplied with the terminal box to seal unused cable entries.
- Before use, please read the instructions in user's guide attached to products.

Terminal Box

Terminal Box / Waterproof type for DC 3-wire and DC 2-wire Detector type

Number of Detector 8 detectors 8 detectors 8 detectors A027.6

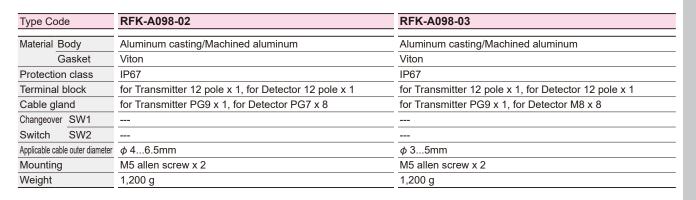
Type Code		RPK-A098-02	RPK-A098-03
Material Boo	dy	Aluminum casting/Machined aluminum	Aluminum casting/Machined aluminum
Ga	sket	Viton	Viton
Protection of	class	IP67	IP67
Terminal blo	ock	for Transmitter 12 pole x 1, for Detector 12 pole x 2	for Transmitter 12 pole x 1, for Detector 12 pole x 2
Cable gland	d	for Transmitter PG9 x 1, for Detector PG7 x 8	for Transmitter PG9 x 1, for Detector M8 x 8
Changeover S	SW1	Changeover NPN/PNP	Changeover NPN/PNP
Switch S	SW2	Changeover 3-wire/2-wire	Changeover 3-wire/2-wire
Applicable cable of	outer diameter	φ 46.5mm	φ 35mm
Mounting		M5 allen screw x 2	M5 allen screw x 2
Weight		1,200 g	1,200 g



Type Code	RPK-B148-02	RPK-B148-03
Material Body	Aluminum casting/Machined aluminum	Aluminum casting/Machined aluminum
Gasket	Viton	Viton
Protection class	IP67	IP67
Terminal block	for Transmitter 6 pole x 2, for Detector 8 pole x 3	for Transmitter 18 pole x 1, for Detector 15 pole x 2
Cable gland	for Transmitter PG9 x 1, for Detector PG7 x 8	for Transmitter PG9 x 1, for Detector PG7 x 16
Changeover SW1	Changeover NPN/PNP	
Switch SW2	Changeover 3-wire/2-wire	
Applicable cable outer diameter	φ 46.5mm	φ 46.5mm
Mounting	M5 allen screw x 2	M5 allen screw x 2
Weight	1,800 g	1,800 g

Terminal Box / Waterproof type for DC 2-wire and Exclusive Detector type

Number of Detector 8 detectors 8 detectors A027.9





Accessories

Exclusive sensor

Terminal box Other unit

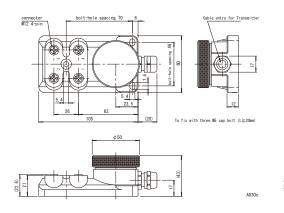
- These products are the terminal box for connecting Transmitter and Detector.
- The blank plugs are supplied with the terminal box to seal unused cable entries.
- Before use, please read the instructions in user's guide attached to products.

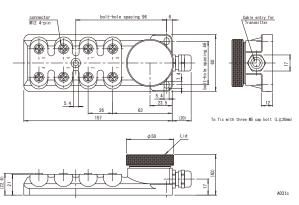
Terminal Box

Terminal Box/Connector type for DC 3-wire and DC 2-wire Detector type

Number of Detector 4 detectors

8 detectors





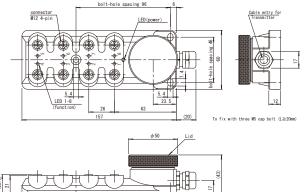
Type DC	3W/NPN	RPK-4C01-N
Code DC	3W/PNP	RPK-4C01-P
LED		
Material	Body	Aluminum casting
	Сар	Machined aluminum
	Gasket	Viton
Protection	n class	IP67
Connection	on Transmitter	7 pole screwless terminal block
	Detector	4 pole connector (M12 x 4)
Cable gland	Transmitter	PG9 x 1
Changeo	ver switch	4-pole DIP switch for changeover of 2-wire and 3-wire detector
Mounting		M5 allen screw x 3
Weight		300 g

RPK-8C01-N
RPK-8C01-P

Aluminum casting
Machined aluminum
Viton
IP67
12 pole screwless terminal block
4 pole connector (M12 x 8)
PG9 x 1
8 pole DIP switch for changeover of 2-wire and 3-wire detector
M5 allen screw x 3
500 g
·

Number of Detector 8 Detectors

Applicable Transmitter RGPT-3005 RGPT-4008 RGPT-9012



Type DC	3W/NPN	RPK-8C01L-N
Code DC	3W/PNP	RPK-8C01L-P
LED		Function indication/Power
Material	Body	Aluminum casting
	Сар	Machined aluminum
	Gasket	Viton
Protectio	n class	IP67
Connecti	on Transmitter	11 pole screwless terminal block
	Detector	4 pole connector (M12 x 8)
Cable gland	d Transmitter	PG9 x 1
Changeo	ver switch	Only for DC 3-wire sensors
Mounting		M5 allen screw x 3
Weight		500 g

Using DC 2-wire sensors

- DC 2-wire sensor can be used with RPK-4C01- N/P and RPK-8C01- N/P by switching the 3-wire/2-wire changeover switch.

RPK-4C01-

Use transmitter: RPTA-1803-PU、RPTA-3005-PU

Detection sen to be used	sor	Applicable Terminal box	3-wire/2-wire changeover switch
DC 3-wire	NPN	RPK-4C01-N	OFF
DC 3-wire	PNP	RPK-4C01-P	OFF
DO Oin-	Non-polar	RPK-4C01-N	ON
DC 2-wire	Polar	RPK-4C01-P	ON

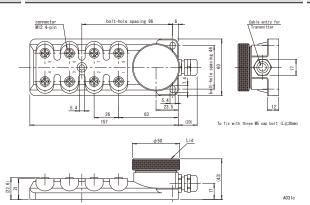
RPK-8C01- 🗌

Use transmitter: RPTA-8010-PU、RGPT series

Detection ser to be used	nsor	Applicable Terminal box	3-wire/2-wire Changeover Switch
DC 2 wire	NPN	RPK-8C01-N	OFF
DC 3-wire	PNP	RPK-8C01-P	OFF
DC 2-wire	Non-polar	RPK-8C01-N	ON
DC 2-wire	Polar	RPK-8C01-P	ON

Terminal Box/Connector type for Exclusive proximity sensor type

Number of Detector 8 detectors





Type Cod	e RXD	RFK-8C01	
LED			
Material	Body	Aluminum casting	
	Сар	Machined aluminum	
	Gasket	Viton	
Protection	n class	IP67	
Connection	n Transmitter	12 pole screwless terminal block	
	Detector	4 pole connector (M12 x 8)	
Cable gland	Transmitter	PG9 x 1	
Changeo	ver switch	Exclusive proximity sensor RXD only	
Mounting		M5 allen screw x 3	
Weight		500 g	

Accessories

Exclusive sensor

Terminal box Other unit

- These products are the terminal box for connecting Transmitter and Detector.
- The blank caps are supplied with the terminal box to seal unused connectors.

Accessories

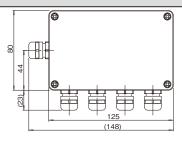
AC Conversion Amplifier

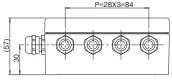
AC Conversion Amplifier Handy Checker

AC Conversion Amplifier

Unit for AC 2-wire sensor connection

RGPT4T converts the drive voltage from 24V DC of the transmitter (RGPT-9012) to 100V AC and supplies power to the connected AC 2-wire switches and also it outputs the detected signals to the transmitter.





Type Code	RGP4T-AC100-KB02A
Applicable Transmitter	DODT 0042 V/2420 DLI
Applicable Transmitter	RGPT-9012-V2430-PU
Number of Detector	4*
Drive current	56mA per sensor
Drive voltage	100V AC (Pseudo sine wave)
Frequency of operation	20Hz
Material Body /Gascket	Aluminum die casting/Neoprene rubber
Operating temperature	0+50°C
Protection class	IP65
Cable gland for Detector	PG9X4 (φ 48mm)
mounting	M4 allen screw x 2
Weight	600g

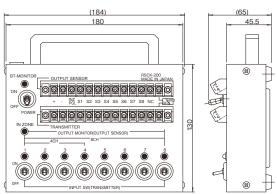
^{*}Corresponds to the input signals 1...4 of the transmitter.

A033

Handy Checker

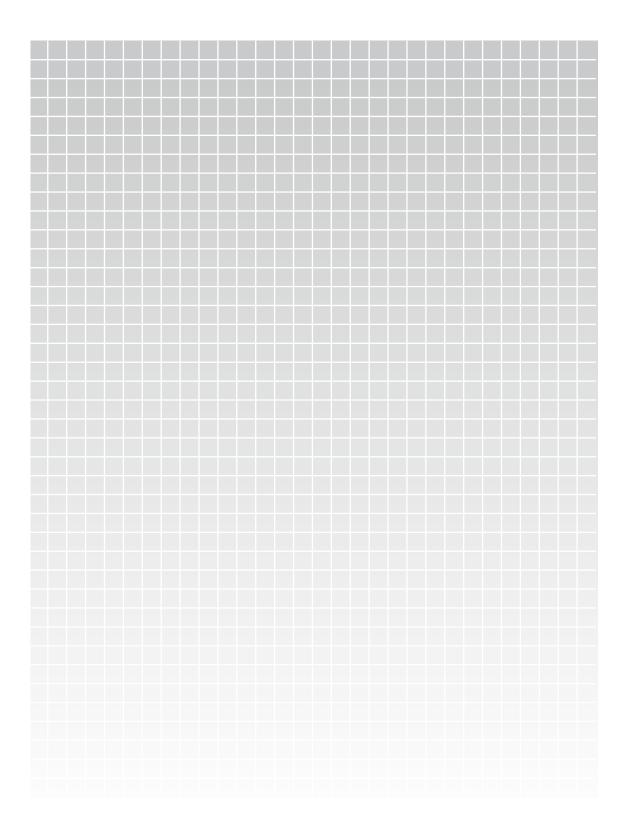
For checking the operating status of Transmitter or Output sensor

Note: Not all Remote Sensors work with this checker. So please ask to salesperson before placing an order .



Type Code	RSCK-200
LED	Battery/InZone/Signal x 8
Material Housing/Battery box	Alminum/ABS
Terminal block	13 pole x 2
Switch	Power / 8 Input signals
Applicable Output sensor	Current consumption ≤ 400 mA
Applicable Transmitter	Using with above mentioned Output sensor as well as be able to use a mechanical sensor.
Supply voltage	24V DC±5%
Power supply Battery	Dry cell battery size AA 4x2=8 (for 30 minutes)
External	Required supply capacity ≥ 10 24V DC 20 W
Operating temperature	0+40℃

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	Accessorie
	Exclusive
	Exclusive
	Exclusive sensor
	Exclusive sensor
	Exclusive sensor
	Exclusive
	Exclusive sensor



Appendix

Wiring	118
Discontinued plans	129
Index	130

Remote Sensor

Remote Coupler

Remote Power Supply

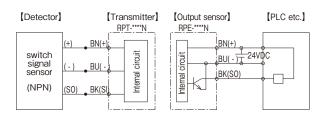
Wiring

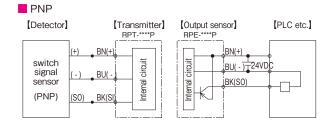
Discontinued plans

Remote Sensor System

C001 DC 3-wire Detector type No. of signal : 1

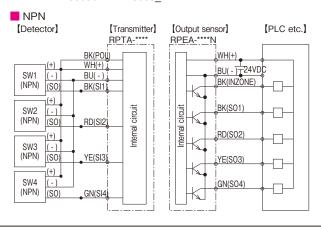
RPT-1804_ / RPE-1804_ RPT-3008_ / RPE-3008_

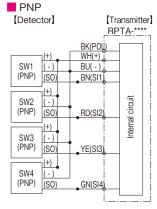




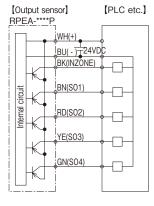
C002 DC 3-wire Detector type No. of signal: 4

RPTA-1803 / RPEA-1803_ RPTA-3005 / RPEA-3005_





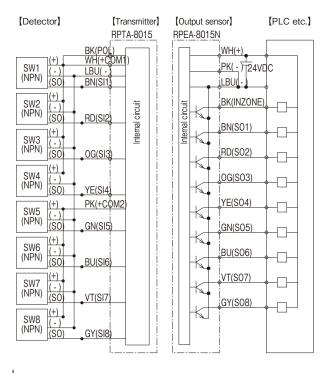
PNP type

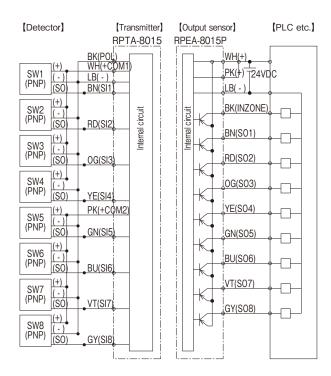


C003 DC 3-wire Detector type No. of signal: 8

RPTA-8015 / RPEA-8015

■ NPN



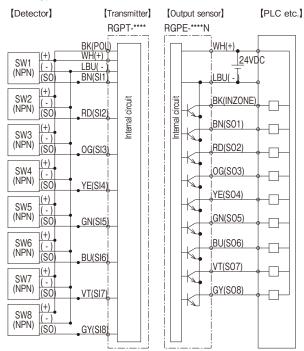


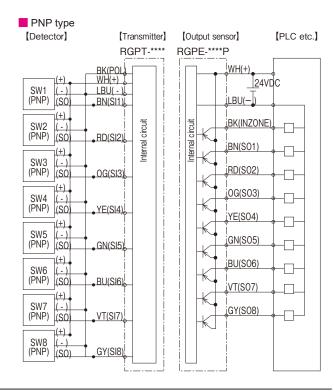
C004

DC 3-wire Detector type No. of signal: 8

RGPT-3005 / RGPE-3005-_ RGPT-4008 / RGPE-4008-_ RGPT-9012 / RGPE-9012-_

■ NPN type



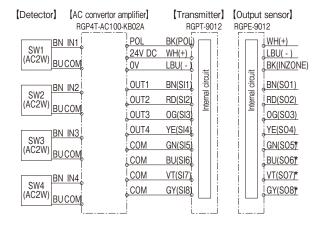


Remote Sensor

Remote Coupler

Remote Power Supply

C005 AC conversion amplifier No. of signal : 4 RGP4T-AC100-KB02A



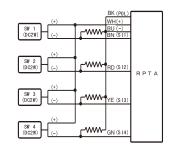
* SO5...SO8 will be ON when Transmitter and Output sensor are operating in Inzone.

Connecting DC2-wire sensor to DC 3-wire Detector type Transmitter

When connecting a DC 2-wire sensor (incl. a mechanical limit switch) to the DC 3-wire type transmitter, be sure to put a resistor to wiring. The recommended resistor is 1...2k ohm.

[Transmitter]

Example: + commom wiring by RPTA-1803



[Detector]

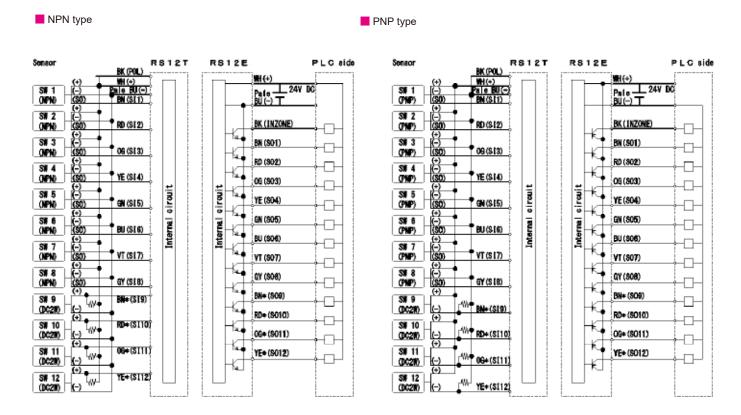
Wiring methods for each product, refer to the User's Guide.

Wiring

Discontinued plans

- -Please refer to the instruction of User's guide supplied with the products for installation and operation.
- -Please note that the cable length of an output sensor may not longer than 10m. The CE marking verifies that our products comply with the requirements of EMC directive. The surge test to an output sensor is not carried out. If the cable length of the output section will be used in the wiring of more than 10m, Please take care that the surge of excess is not applied.

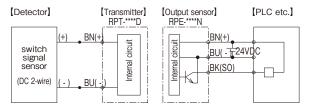
C028 DC 3-wire Detector type No. of signal : 12
RS12T-422 / RS12E-422_

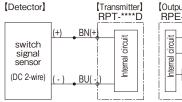


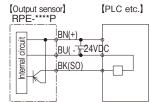
C006 DC 2-wire Detector type No. of signal : 1

RPT-1202D / RPE-1202_ RPT-1804D / RPE-1804_ RPT-3008D / RPE-3008_ RPT-F0D / RPE-F0

■ NPN





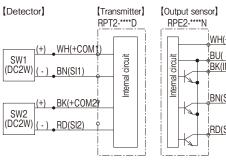


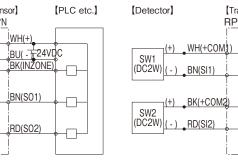
Remote <u>Sens</u>or

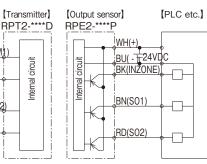
Remote Coupler

C007 DC 2-wire Detector type No. of signal: 2

RPT2-1804D-PU / RPE2-1804_ RPT2-3005D-PU / RPE2-3005



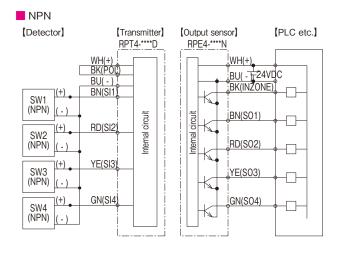


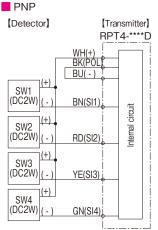


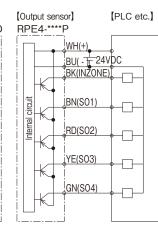
Remote Power Supply

C008 DC 2-wire Detector type No. of signal : 4

RPT4-1803D / RPE4-1803_ RPT4-3005D / RPE4-3005_







Wiring

Discontinue plans

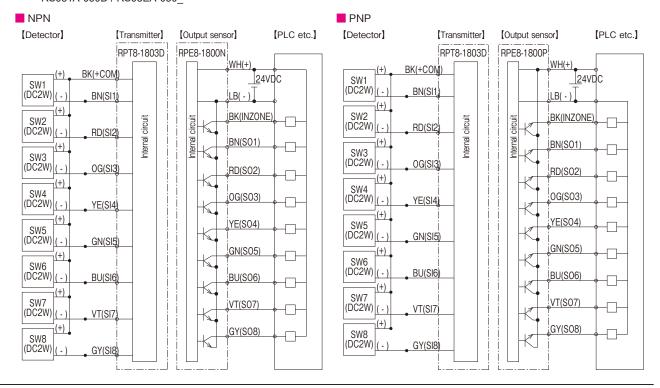
Inde

RPT4-xxxxD can be connected with both of "+common" and "-common".

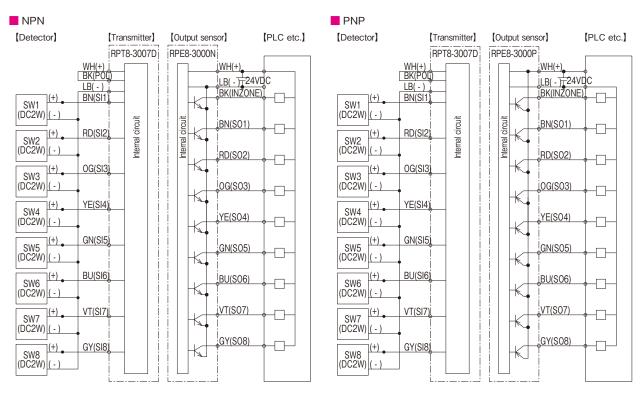
- -Please refer to the instruction of User's guide supplied with the products for installation and operation.
- -Please note that the cable length of an output sensor may not longer than 10m. The CE marking verifies that our products comply with the requirements of EMC directive. The surge test to an output sensor is not carried out. If the cable length of the output section will be used in the wiring of more than 10m, Please take care that the surge of excess is not applied.

C009 DC 2-wire Detector type No. of signal: 8

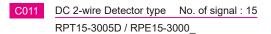
RPT8-1803D / RPE8-1800_ RS08TA-018D / RS08EA-018_ RS08TA-030D / RS08EA-030

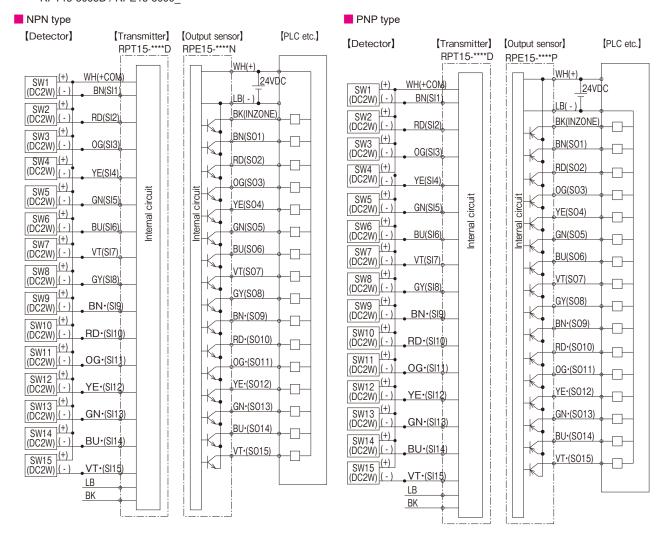


C010 DC 2-wire Detector type No. of signal: 8
RPT8-3007D / RPE8-3000



RPT8-3007D is - common.
Please contact us for + common type.





-As "not connected" because you do not need to use the black cable and pale blue, do not come into contact with other wires.

Remote Sensor

Remote Coupler

Remote Power Supply

Wiring

Discontinue plans

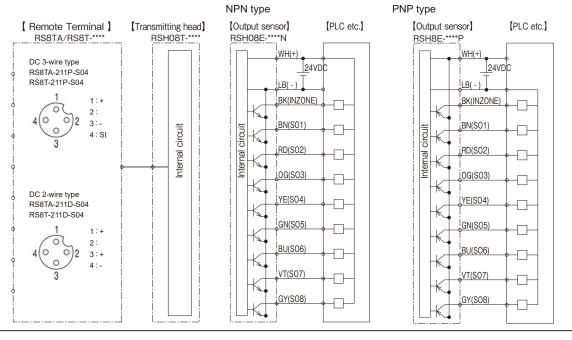
⁻Please refer to the instruction of User's guide supplied with the products for installation and operation.

⁻Please note that the cable length of an output sensor may not longer than 10m. The CE marking verifies that our products comply with the requirements of EMC directive. The surge test to an output sensor is not carried out. If the cable length of the output section will be used in the wiring of more than 10m, Please take care that the surge of excess is not applied.

C025

DC 2-wire Detector type / DC 3-wire Detector type No. of signal: 8

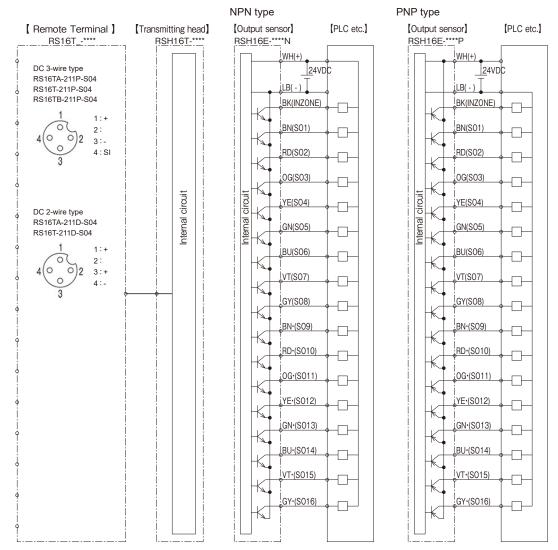
RS8T/RS8TA-211_-S04 / RSH8T-030-PU / RSH8E-030 \square -PU



C026

DC 2-wire Detector type / DC 3-wire Detector type No. of signal: 16

RS16TA/RS16T-211_-S04 / RSH16T-030-PU / RSH16E-030 \square -PU RS16TB-211P-S04 / RSH16TB-030-PU / RSH16EB-030P-PU

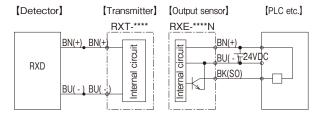


Remote Sensor System Exclusive Proximity sensor type

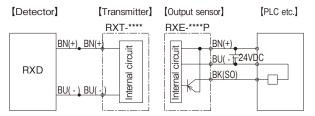
C012 Exclusive sensor type No. of signal : 1

RST-1202-PU / RXE-1202_ RXT-1202-PU / RXE-1202_ RXT-1805-PU / RXE-1805

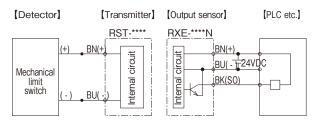
■ Exclusive proximity sensor RXD (NPN)



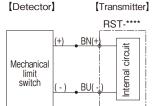
Exclusive proximity sensor RXD (PNP)

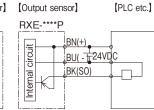


■ Mechanical limit switch (NPN)



Mechanical limit switch (PNP)

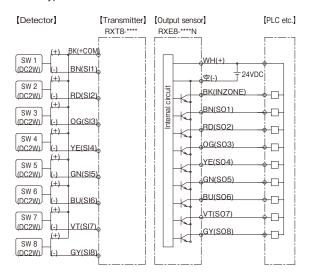




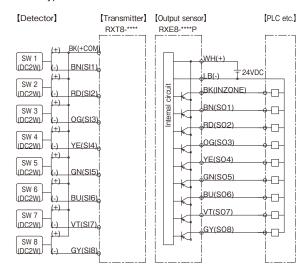
C027 Exclusive sensor type No. of signal: 8

RXT8-1805 / RXE8-1800_ RXT8-3010 / RXE8-3000

■ NPN type



PNP type



Remote <u>Sens</u>or

Remote Coupler

Remote Power Supply

Wiring

Discontinued plans

Inde

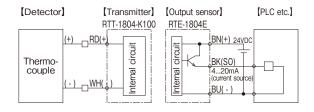
⁻Please refer to the instruction of User's guide supplied with the products for installation and operation.

⁻Please note that the cable length of an output sensor may not longer than 10m. The CE marking verifies that our products comply with the requirements of EMC directive. The surge test to an output sensor is not carried out. If the cable length of the output section will be used in the wiring of more than 10m, Please take care that the surge of excess is not applied.

Remote Sensor System Analog signal transmission

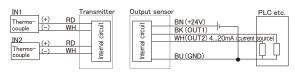
C014 Thermocouple type No. of signal : 1

RTT-1804-K100 / RTE-1804E



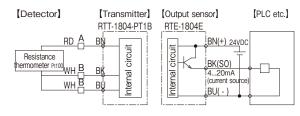
C015 Thermocouple type No. of signal : 2

RS02T-018-K*** / RS02E-018E-PU RS02T-018-J300 / RS02E-018E-PU



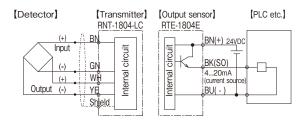
C016 Resistance thermometer type No. of signal : 1

RTT-1804-PT1B / RTE-1804E



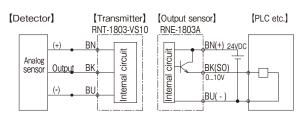
C017 Load cell type No. of signal : 1

RNT-1804-LC__ / RTE-1804E



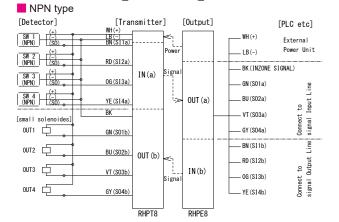
C018 Analog senser type No. of signal : 1

RNT-1803-VS10 / RNE-1803A



Remote Coupler System

C019 Bi-directional switch signal: 4+4
RHPT8-8010_ / RHPE8-8010_



PNP type [Detector] [Transmitter] [Output] [PLC etc] SW 1 (SO) LB (-) BN (SI1a) External Power Unit . LB (-) SW 2 (-) (NPN) (SO) RD (SI2a BK (INZONE SIGNAL) SW 3 (-) (NPN) (SO) IN(a) 0G (SI3a) GN (SO1a) SW 4 (-) (NPN) (SO) 0UT (a) . BU (SO2a) to Input YE (SI4a) BK VT (S03a) Connect signal 0UT1 📮 - GY (SO4a) GN (S01b) - BN (SI1b) ine OUT2 BU (S02b) 0UT (b) RD (S12b) to Output I OUT3 🗀 VT (S03b) IN(b) - 0G (S13b) signal 0UT4 YE (S14b) GY (S04b) RHPT8 RHPE8

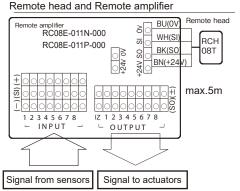
C020

Bi-directional switch signal: 8 + 8

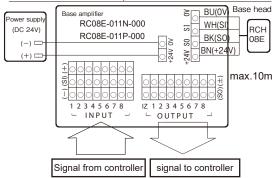
Remote head RCH08T-211 Base head RCH08E_-211
Remote amplifier RC08T-011_-000 Base amplifier RC08E-011_-000

64 +32 Signal transmission type do the wiring with referring to the user's guide or manual.

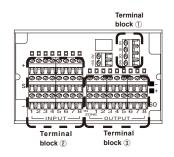
■ Wiring Head and Amplifier



Base head and Base amplifier

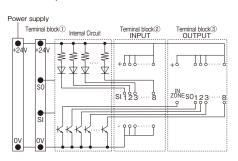


Amplifier internal circuit



NPN type

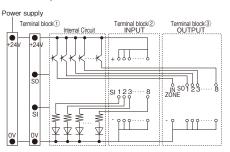
Base amplifier RC08E-011N-000 Remote amplifier RC08T-011N-000



- +1...+8 and -1... -8 of terminal 2 and +1...+8 of terminal 3 are internally connected each other.
- "Power" means "power input" for base amplifier and "power output" for remote amplifier.

PNP type

Base amplifier RC08E-011P-000 Remote amplifier RC08T-011P-000



- +1...+8 and -1... -8 of terminal 2 and +1...+8 of terminal 3 are internally connected each other.
- "Power" means "power input" for base amplifier and "power output" for remote amplifier.

Remote Sensor

Remote Coupler

Remote Power Supply

Discontinued plans

Wiring

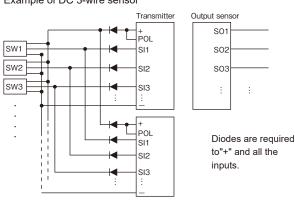
Parallel connection of Transmitter

When Remote Sensor System transmitter(switch signal transmission) is parallely-connected with detector sensor, put a diode to avoid sneak current.

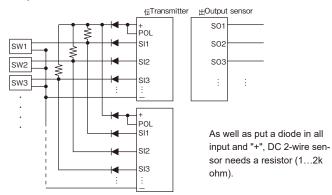
DC 3-wire Detector type / NPN

When DC 3-wire type transmitter is parallely-connected with DC 3-wire NPN type sensor, please put a diode in all inputs and "+". When connecting to DC 2-wire type sensor, put the resistor (1...2k ohm) to signal line.

Example of DC 3-wire sensor



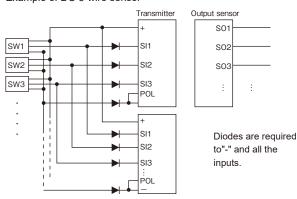
Example of DC 2-wire sensor



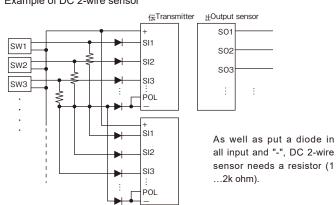
DC 3-wire Detector type / PNP

When DC 3-wire type transmitter is parallely-connected with DC 3-wire PNP type sensor, please put a diode in all inputs and "-" When connecting to DC 2-wire type sensor, put the resistor (1...2k ohm) to signal line.

Example of DC 3-wire sensor

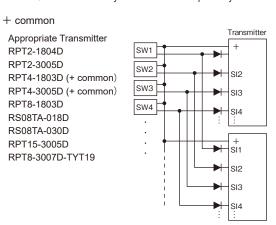


Example of DC 2-wire sensor



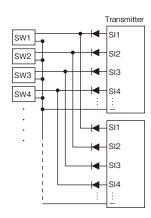
DC 2-wire Detector type

When DC 2 wire Remote system transmitter is parallely-connected, put a diode in all inputs.



- common

Appropriate Transmitter RPT4-1803D (- common) RPT4-3005D (- common) RPT8-3007D



Discontinued plans

Discontinued plans

The following products are expected to by the hard-to-find of the parts used, to stop production until the appropriate date. There is the case that is subject to parts availability, it is aborted at any previous date. Please understand. Please contact your sales representative for replacements.

■ Remote Sensor System

Transmission signal type	Product range	Type code	Discontinued plans
		RAT-1805-PU	
		RAT-3010-PU	
		RQE-1804 □ -PU	
		RQT-1804 □ -PU	
	1 signal transmission :	RST-1805-PU	
		RST-3010-PU	
	For exclusive proximity sensor RXD	RWT-E3000-PU	
	or Reed Sensor	RWT-E1800-PU	
		RWT-R3000-PU	
		RWT-R1800-PU	
		RXT-3010-PU	
		RXE-3010 □ -PU	
	4 signal transmission :	RPEA-FX406 □ -PU	
		RPTA-FX406-PU	
	Marketing DC 3-wire sensor	RPEA-3005 ☐ -GM-PU	
		RFTA-1805-PU	
	8 signal transmission :	RFEA-1805 □ -PU	
witch signal specification	For exclusive proximity sensor RXD	RFTA-3010-PU	The end of April, 2014
		RFEA-3010 □ -PU	
	or Reed Sensor	RFTA-3018-PU	
		RFEA-3018 □ -PU	
		RFTB-1803-PU	
	8 signal transmission :	RFEB-1803 □ -PU	
	-	RFTB-3005-PU	
	For exclusive proximity sensor RXD or Reed Sensor	RFEB-3005 □ -PU	
		RPTA-8010-PU	
		RPEA-8010 □ -PU	
	16 signal transmission : For exclusive proximity sensor RXD or Reed Sensor	RHT-3005PU	
		RHE-3005PU	
		RFT16-BB01	
		RFE16-RS01- □	
	Exclusive sensor	RFD-1804AL-PU	
		RFD-1804NM-PU	
		RFD-3008NM-PU	
		RXD-3010M-PU	
Analog signal transmission	1 signal transmission :	RTE-9012E-PU	
	Thermocouple K	RTT-9012-PT1B 🗆 0-PU	The end of April, 2014
		RHT-3005Y-PU	
	6 aignal transmission	RHE-3005CY-PU	
	6 signal transmission	RTT06-KB01-K100	The end of March, 2013
	Thermocouple K or J	RTT06-KB01-J30	
		RTE06-KB01-E	

■ Remote Coupler System

Transmission signal type	Product range	Type code	Discontinued plans	
Bi-directional switch signal speci-	8+8 signal transmission	RHPT-8010-V2410-PU		
		RHP16TN-RS01		
		RHP16P-RS01		
		RHPE-8010-V2410-PU		
		RHP16EN-RS01	The end of April, 2014	
		RHP16P-RS01		
fication	64+32 signal transmission	RLH64T-211-PU		
		RLH00T-211-PU		
		RL64T-322-000		
		RLH64E-211-PU		
		RLH00E-211-PU		
		RL64E-311 -000		
Data Signal transmission	ICC-Link	RCD22T-922	The end of December, 2013	
		RCD22E-922	The end of December, 2013	

■ Remote Power Supply System

Transmission signal type	Product range	Type code	Discontinued plans	
Power supply only	124V/1A	RHVT-MX90-D2410		
		RHVE-MX90-D24	a and of Documber 2012	
	124V/5A	RHVT-QA15-D2450	The end of December, 2013	
		RHVE-QA15-A10		

Remote Sensor

Remote Coupler

Remote Power Supply

Wiring

Discontinued plans

Inde

Type Code	Published page	RNT-1804-LC10-PU	76	RPEA-TF3005N-PU	35
		RNT-1804-LC15-PU	76	RPEA-TF3005P-PU	35
RC08E-011N-000	85	RNT-1804-LC20-PU	76		
RC08E-011P-000	85			RPK-2101	108
RC08T-011N-000	85	RPE-1202N-PU	48	RPK-2102	108
RC08T-011P-000	85	RPE-1202N-PU-CP	48	RPK-2103	108
RCD11E-211-PU	90	RPE-1202P-PU	48	RPK-4C01-N	112
RCD11T-211-PU	90	RPE-1202P-PU-CP	48	RPK-4C01-P	112
RCD22E-211-CLC	92	RPE-1804N-PU	32 / 49	RPK-8C01-N	112
RCD22T-211-CLC	92	RPE-1804N-PU-CP	32 / 49	RPK-8C01-P	112
RCD33E-211-DNC	94	RPE-1804P-PU	32 / 49	RPK-8C01L-N	112
RCD33T-211-DNC	94	RPE-1804P-PU-CP	32 / 49	RPK-8C01L-P	112
RCH08E-211-PU	84	RPE-3008N-PU	33 / 50	RPK-A098-02	110
RCH08T-211-PU	84	RPE-3008N-PU-CP	33 / 50	RPK-A098-03	110
		RPE-3008P-PU	33 / 50	RPK-B148-02	110
RCS210-PB24	103	RPE-3008P-PU-CP	33 / 50	RPK-B148-03	110
RCS240-AC1	103	RPE-F0N-PU	51		
RCS240AH	102	RPE-F0P-PU	51	RPT-1202D-PU	48
RCS240PH	102	RPE-TF1804N-PU	32 / 49	RPT-1202D-PU-CP	48
		RPE-TF1804N-PU-CP	32 / 49	RPT-1804D-PU	49
RFD-0801-PU	106	RPE-TF1804P-PU	32 / 49	RPT-1804D-PU-CP	49
RFD-1202-PU	106	RPE-TF1804P-PU-CP	32 / 49	RPT-1804N-PU	32
RFD-1202-PU-CP	106	RPE-TF3008N-PU	33 / 50	RPT-1804N-PU-CP	32
RFD-1805-PU	106	RPE-TF3008N-PU-CP	33 / 50	RPT-1804P-PU	32
RFD-1805-PU-CP	106	RPE-TF3008P-PU	33 / 50	RPT-1804P-PU-CP	32
RFD-3010-PU	106	RPE-TF3008P-PU-CP	33 / 50	RPT-3008D-PU	50
RFD-3010-PU-CP	106	-		RPT-3008D-PU-CP	50
RFK-3101	109	RPE2-1804N-PU	52	RPT-3008N-PU	33
RFK-8C01	113	RPE2-1804P-PU	52	RPT-3008N-PU-CP	33
RFK-A098-02	111	RPE2-3005N-PU	53	RPT-3008P-PU	33
RFK-A098-03	111	RPE2-3005P-PU	53	RPT-3008P-PU-CP	33
		RPE2-TF1804N-PU	52	RPT-F0D-PU	51
RGP4T-AC100-KB02A	114	RPE2-TF1804P-PU	52	RPT-TF1804D-PU	49
RGPE-3005-V1215N-PU	36	RPE2-TF3005N-PU	53	RPT-TF1804D-PU-CP	49
RGPE-3005-V1215P-PU	36	RPE2-TF3005P-PU	53	RPT-TF1804N-PU	32
RGPE-4008-V1220NA-PU	37	11 22 11 00001 1 0		RPT-TF1804N-PU-CP	32
RGPE-4008-V1220NB-PU	37	RPE4-1803N-PU	54	RPT-TF1804P-PU	32
RGPE-4008-V1220PA-PU	37	RPE4-1803P-PU	54	RPT-TF1804P-PU-CP	32
RGPE-4008-V1220PB-PU	37	RPE4-3005N-PU	55	RPT-TF3008D-PU	50
RGPE-9012-V2430N-PU	39	RPE4-3005P-PU	55	RPT-TF3008D-PU-CP	50
RGPE-9012-V2430P-PU	39	RPE4-TF1803N-PU	54	RPT-TF3008N-PU	33
RGPT-3005-V1215-PU	36	RPE4-TF1803P-PU	54	RPT-TF3008N-PU-CP	33
RGPT-4008-V1220A-PU	37	RPE4-TF3005N-PU			
RGPT-4008-V1220B-PU	37	RPE4-TF3005P-PU	55 55	RPT-TF3008P-PU RPT-TF3008P-PU-CP	33
RGPT-9012-V2430-PU	39	KFE4-1F3003F-F0		KF1-1F3006F-F0-CF	
KGF 1-90 12-V2430-F0		DDE9 1900N DII		DDT2 4904D DII	52
RHPE8-8010N-C3-PU	82	RPE8-1800N-PU	56	RPT2-1804D-PU RPT2-1804D-CP	52
		RPE8-1800P-PU	56		
RHPE8-8010P-C3-PU	82	RPE8-3000N-PU	57	RPT2-3005D-PU	53
RHPT8-8010N-C3-PU	82	RPE8-3000P-PU	57	RPT2-3005D-CP	53
RHPT8-8010P-C3-PU	82	RPE8-TF1800N-PU	56	RPT2-TF1804D-CP	52
PLOAT COOK COOK		RPE8-TF1800P-PU	56	RPT2-TF1804D-PU	52
RL64E-333N-000	88	RPE8-TF3000N-PU	57	RPT2-TF3005D-CP	53
RL64E-333P-000	88	RPE8-TF3000P-PU	57	RPT2-TF3005D-PU	53
RL64E-366CL-000	89			DDT4 40000 DV	
RL64E-366EI-000	89	RPE15-3000N-PU	60	RPT4-1803D-PU	54
RL64EA-355DN-000	88	RPE15-3000P-PU	60	RPT4-3005D-PU	55
RL64T-344N-000	86	RPE15-TF3000N-PU	60	RPT4-TF1803D-PU	54
RL64T-344P-000	86	RPE15-TF3000P-PU	60	RPT4-TF3005D-PU	55
RL64T-345N-000	86				
RL64T-345P-000	86	RPEA-1803N-PU	34	RPT8-1803D-PU	56
RLX08-322N	87	RPEA-1803P-PU	34	RPT8-3007D-PU	57
RLX08-322P	87	RPEA-3005N-PU	35	RPT8-TF1803D-PU	56
RLY04-322N	87	RPEA-3005P-PU	35	RPT8-TF3007D-PU	57
RLY04-322P	87	RPEA-8015N-PU	38		
		RPEA-8015P-PU	38	RPT15-3005D-PU	60
RNE-1803A-PU	78	RPEA-TF1803N-PU	34	RPT15-TF3005D-PU	60
RNT-1803-VS10-PU	78	RPEA-TF1803P-PU	34		

RPTA-1803-PU	34
RPTA-3005-PU	35
RPTA-8015-PU	38
RPTA-TF1803-PU	34
RPTA-TF3005-PU	35
RS02E-018E-PU	72 / 73
RS02T-018-J300	73
RS02T-018-K1000 RS02T-018-K300	72
K3021-016-K300	72
RS08EA-018N-PU	58
RS08EA-018P-PU	58
RS08EA-030N-PU	59
RS08EA-030P-PU	59
RS08TA-018D-PU	58
RS08TA-030D-PU	59
RS12E-422N-PU	40
RS12E-422P-PU	40
RS12T-422-PU	40
RS16T-211D-S04	64
RS16T-211P-S04	44
RS16TA-211D-S04	64
RS16TA-211P-S04	44
RS16TB-211P-S04	46
RS8T-222D-S04	62
RS8T-222P-S04	42
RS8TA-222D-S04	62
RS8TA-222P-S04	42
RSCK-200	114
100K-200	117
RSH16E-030N-PU	45 / 65
RSH16E-030P-PU	45 / 65
RSH16E-030P-PU RSH16E-TF030N-PU	45 / 65 45 / 65
RSH16E-TF030N-PU	45 / 65
RSH16E-TF030N-PU RSH16E-TF030P-PU	45 / 65 45 / 65
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU	45 / 65 45 / 65 47
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP	45 / 65 45 / 65 47 45 / 65
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP	45 / 65 45 / 65 47 45 / 65 45 / 65
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RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030N-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-F030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8T-TF030P-PU RSH8T-TF030P-PU RSH8T-TF030P-PU RSH8T-TF030P-PU-CP	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030P-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTE-1804E-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-PT1804-PT1810-PU RTT-1804-PT1810-PU	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTE-1804E-PU	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-PT1B10-PU RTT-1804-PT1B20-PU RTT-1804-PT1B30-PU	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-PT1804-PT1810-PU RTT-1804-PT1810-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-PT1B10-PU RTT-1804-PT1B10-PU RTT-1804-PT1B30-PU RTT-1804-PT1B30-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74 98
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-FT1B10-PU RTT-1804-PT1B10-PU RTT-1804-PT1B30-PU RTT-1804-PT1B30-PU RVE-211-2-PU RVEI-030-2-PU	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74 98 100
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-FT1B10-PU RTT-1804-PT1B10-PU RTT-1804-PT1B30-PU RTT-1804-PT1B30-PU RVE-211-2-PU RVEI-030-2-PU	45 / 65 45 / 65 47 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74 98 100
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-FT1B10-PU RTT-1804-PT1B10-PU RTT-1804-PT1B30-PU RTT-1804-PT1B30-PU RVE-211-2-PU RVEI-030-2-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74 98 100 101
RSH16E-TF030N-PU RSH16E-TF030P-PU RSH16EB-030P-PU RSH16T-030-PU-CP RSH16T-TF030-PU-CP RSH16TB-030-PU-CP RSH8E-030N-PU RSH8E-030N-PU RSH8E-TF030N-PU RSH8E-TF030P-PU RSH8E-TF030P-PU RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RSH8T-TF030-PU-CP RST-1202-PU RTT-1804-FT1B10-PU RTT-1804-PT1B10-PU RTT-1804-PT1B30-PU RTT-1804-PT1B30-PU RVE-211-2-PU RVEI-030-2-PU RVEI-C01-2-PU	45 / 65 45 / 65 47 45 / 65 45 / 65 47 43 / 63 43 / 63 43 / 63 43 / 63 43 / 63 66 70 / 74 / 76 70 74 74 74 98 100 101

RXD-0801-PU	107
RXD-1202-PU	107
RXD-1202-PU-CP	107
RXD-1805-PU	107
RXD-1805-PU-CP	107
RXD-3010-PU	107
RXD-3010-PU-CP	107
10.0 00101 0 01	107
RXE-1202N-PU	66
RXE-1202N-PU-CP	66
RXE-1202P-PU	66
RXE-1202P-PU-CP	66
RXE-1805N-PU	67
RXE-1805N-PU-CP	67
RXE-1805P-PU	67
RXE-1805P-PU-CP	67
RXE8-1800N-PU	68
RXE8-1800P-PU	68
RXE8-3000N-PU	69
RXE8-3000P-PU	69
RXT-1202-PU	66
RXT-1202-PU-CP	66
RXT-1805-PU	67
RXT-1805-PU-CP	67
RXT8-1805-PU	68
RXT8-3010-PU	69

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