

Wirelessly feeding and communicates data of a field network comprised of wiring-saving.
Product available by other companies. Correspond with the field apparatus network.



24V2A
Wireless Power Supply

Interactive data communication

IO-Link Signal

The first in history!!

2ch connectible.

24V1A
Wireless Power Supply

Easy to design without taking up space
Compact size(45mmx45mmx25mm)



IO-Link Signal 2ch



Dr. Winyaless

Check the B&PLUS' s website.

500Kbps



10Mbps



1.5Mbps



38.4Kbps

RS-232C
Serial communication

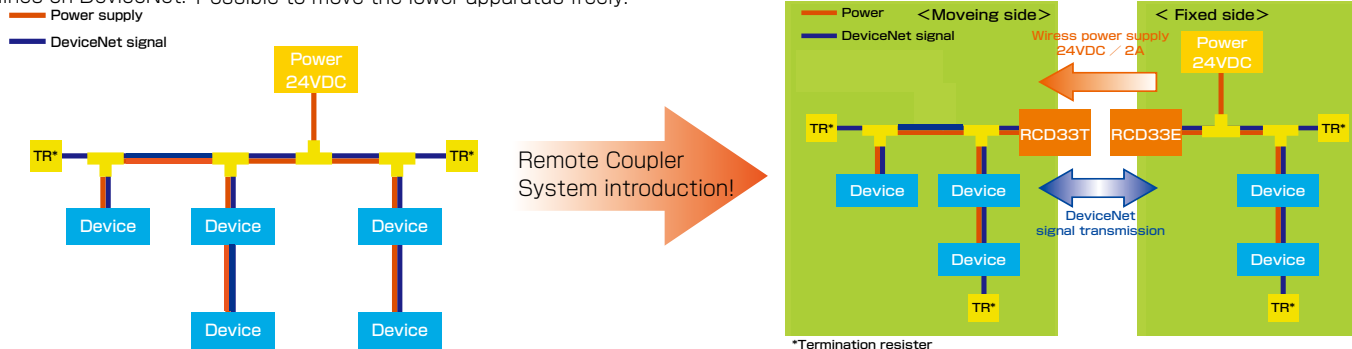
38.4Kbps



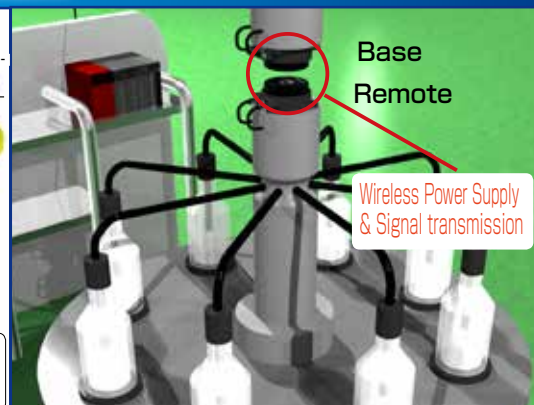
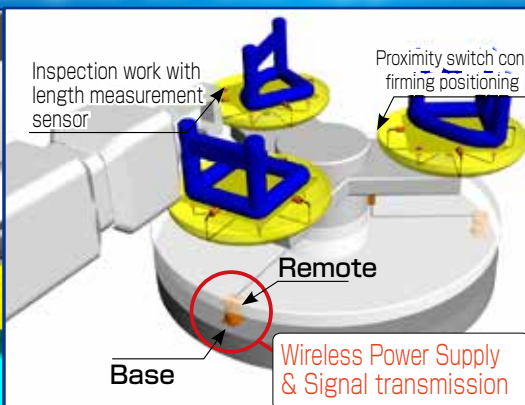
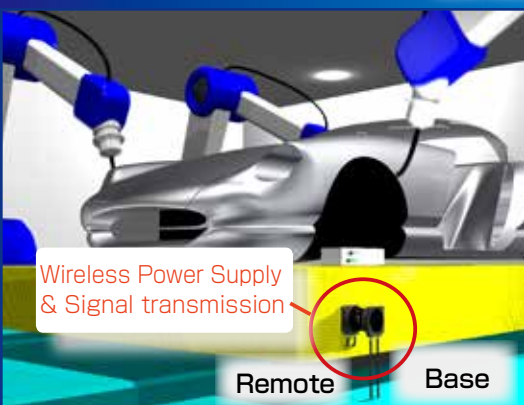
Wireless Power Supply+Data communication

DeviceNet that can be operate freely using Remote Coupler system

Communicate with a DeviceNet while power supplying to a lower apparatus, by putting a remote coupler system between a trunk line and droplines on DeviceNet. Possible to move the lower apparatus freely.



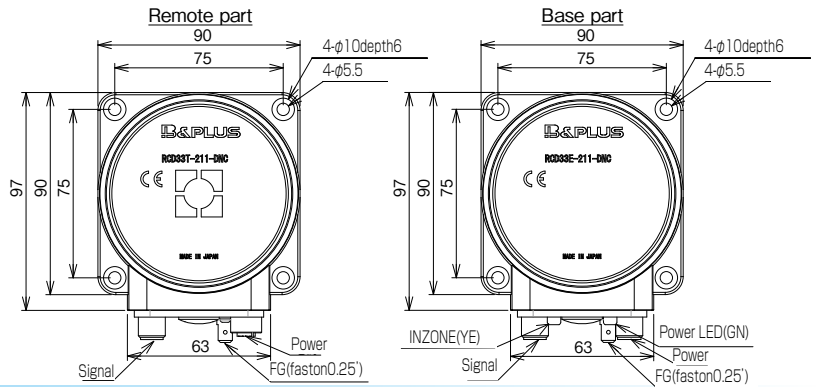
Example of the application



Identification of the conveyance palette, and welding.

Inspect the work in the index table with a length measurement sensor

Transmit the analog signal of the pressure sensor of the leak tester



Remote side	Pin	signal(5pin)	power(4pin)
	1	Shield	24V DC
	2	V +	unused
	3	V -	0 V
	4	CAN H	unused
	5	CAN L	unused

Please do not connect anything to an unused pin/

Type Remote part	RCD33T-211-DNC
Drive voltage / current	24V ± 1.5V DC / ≤ 2A
Transmission range/Center offset	3...5mm / ± 4mm
protection class	IP 67
Connector	Signal: M12/5-pin male Power supply: M12/4-pin Fe male
[Optional] Signal Connector cable	M12/5 pin Fe male: VA-5DSX5DVG5-BL
[Optional] Power connector cable	M12/4 pin male: TM-4DBX5HG2-1/3
Material Material Case/Active face	Aluminum + alumite processing (metal part) / ABS+PBT (resin part)
Weight	800g

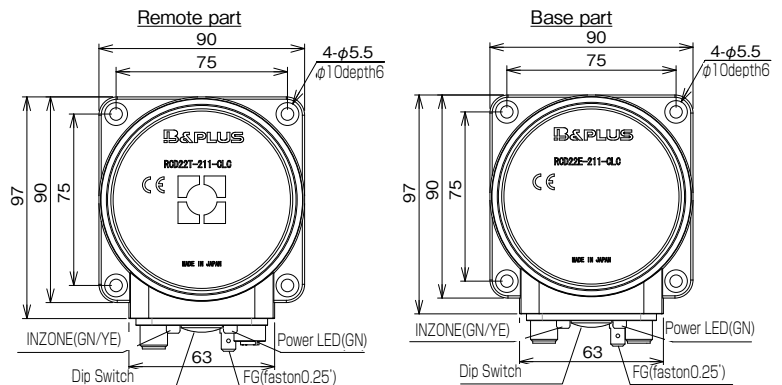
Base side	Pin	signal(5pin)	power(4pin)
	1	Shield	24V DC
	2	V +	unused
	3	V -	0 V
	4	CAN H	unused
	5	CAN L	unused

Please do not connect anything to an unused pin/

Type Base side	RCD33E-211-DNC
Supply voltage / Current consumption	24V DC ± 5%(incl.ripple) ≤ 3A
Signal transmission	DeviceNet (CAN Bus)
Transmission delay	125K...500K bps
Data delay time	≤ 0.5 μ sec.
Start-up time	≤ 2min. *
Connector	signal: M12 / 5 pin male A -code, power: M12 / 4 pin male A -code
[Optional] Signal Connector cable	M12/5 pin Fe male: VA-5DSX5DVG5-BL
[Optional] Power connector cable	M12/4 pin Fe male: TM-4DSX5HG2-1/3
protection class	IP 67
Material Material Case/Active face	Aluminum + alumite processing (metal part) / ABS+PBT (resin part)
Weight	800g

Be sure to connect the terminal resistor 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.

3) It is the start up time of Remote system. * It is the start up time of Remote system. The start up time of DeviceNet depends on each system.



Remote side	Pin	Signal (4pin)	Power (4pin)
	1	SLD	+24V
	2	DB	unused
	3	DG	1G
	4	DA	unused

Please do not connect anything to an unused pin/

Type Remote part	RCD22T-211-CLC
Drive voltage / current	24V ± 1.5V DC / ≤ 2A
Transmission range/Center offset	3...5mm / ± 4mm
protection class	IP 67
Connector	Signal: M12/4 pin male A -code, Power M12/4 pin Fe male A -code
[Optional] Signal Connector cable	M12/4 pin Fe male: VA-4DSX5CCG4
[Optional] Power connector cable	M12/4 pin male: TM-4DBX5HG2-1/3
Material Material Case/Active face	Aluminum + alumite processing (metal part) / ABS+PBT (resin part)
Weight	800g

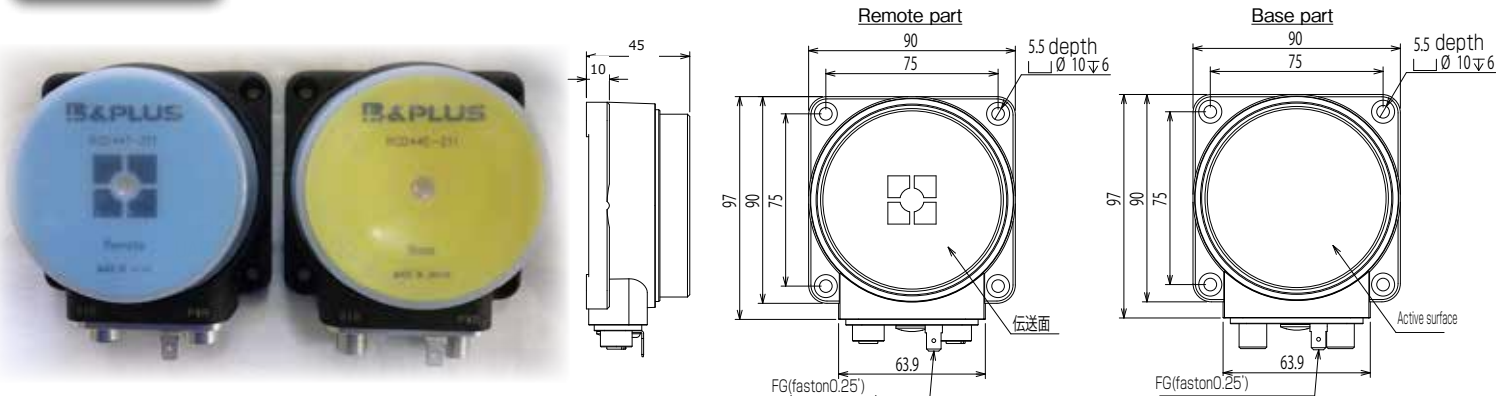
Base side	Pin	Signal (4pin)	Power (4pin)
	1	SLD	+24V
	2	DB	unused
	3	DG	1G
	4	DA	unused

Please do not connect anything to an unused pin/

Type Base part	RCD22E-211-CLC
Supply voltage / Current consumption	24V DC ± 5%(incl.ripple) ≤ 3A
Signal transmission	CC-Link Data Signal
Transmission delay	156K...10M bps (changed by dipswitch)
Data delay time	max 30bit
Start-up time	≤ 2min. *
Connector	Signal: M12/4 pin male A -code, Power: M12/4 pin male A -code
[Optional] Signal Connector cable	M12/4 pin fe male: VA-4DSX5CCG4
[Optional] Power connector cable	M12/4 pin fe male: TM-4DSX5HG2-1/3
protection class	IP 67
Material Material Case/Active face	Aluminum + alumite processing (metal part) / ABS+PBT (resin part)
Weight	800g

Be sure to connect the terminal resistor on both ends of CC-Link.
Each two terminal resistors are required on Remote side and Base side.
Termination resistor should be prepared by an user.

3) It is the start up time of Remote system. It is the start up time of Remote system. The start up time of CC-Link depends on each system.



Remote part	Pin	Signal (5pin)	Power (4pin)
	1	unused	+24V
	2	Rx/Tx A	unused
	3	unused	0V
	4	Rx/Tx B	unused
	5	unused	
Please do not connect anything to an unused pin/			

Type Remote part	RCD44T-211-PBC
Drive voltage / current	24V \pm 1.5V DC / \leq 2A
Transmission range/Center offset protection class	3...5mm / \pm 4mm IP 67
Connector	signal : M12 / 5 pin Fe male B-code, power : M12 / 4 pin Fe male A -code
[Optional] Signal Connector cable	M12/5 pin male : BCC M 412-0000-2B-031-PS72N1-050
[Optional] Power connector cable	M12/4 pin male : TM-4DBX5HG2-1/3
Material Material Case/Active face	Aluminum + alumite processing (metal part) / PA12(resin part)
Weight	700g

■ Please be careful not to use this product outside the bus end because it has built-in termination resistor specifications.
Please set a terminator at the opposite end.

Base part	Pin	Signal (5pin)	Power (4pin)
	1	unused	+24V
	2	Rx/Tx A	unused
	3	unused	0V
	4	Rx/Tx B	unused
	5	unused	
Please do not connect anything to an unused pin/			

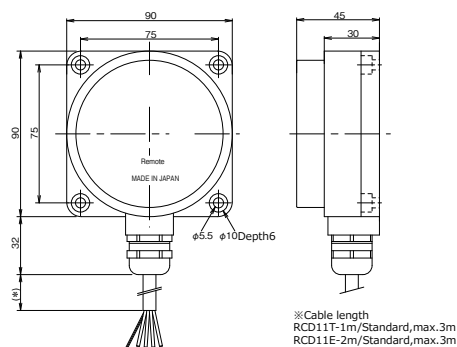
Type Base side	RCD44E-211-PBC
Supply voltage / Current consumption	24V DC \pm 5%(incl.ripple) \leq 3A
Signal transmission	PROFIBUS-DP Data signals
Transmission speed	1.5M bps
Data delay time/Transmission delay jitter	3Tbit / MAX.1/4bit
Start-up time	\leq 2min. *
Connector	Signal : M12 / 5 pin male B-code, Power : M12 / 4 pin male A -code
[Optional] Signal Connector cable	M12/5 pin fe male : BCC M 415-0000-1B-031-PS72N1-050
[Optional] Power connector cable	M12/4 pin fe mele : TM-4DSX5HG2-1/3
protection class	IP 67
Material Material Case/Active face	Aluminum + alumite processing (metal part) / PA12 (Resin)
Weight	700g

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

RS-232C UART communication

RS-232C+24V1A / UART communication

RS-232C+24V1A Remote part



※Cable length
RCD11T-1m/Standard,max.3m
RCD11E-2m/Standard,max.3m

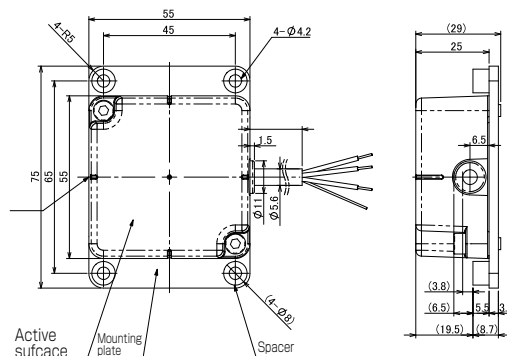
Remote part / Base part	
+24V	Red
0V	Black
TXD	White
RXD	Green
FG	Shield



Remote side
Base side
Common wiring.

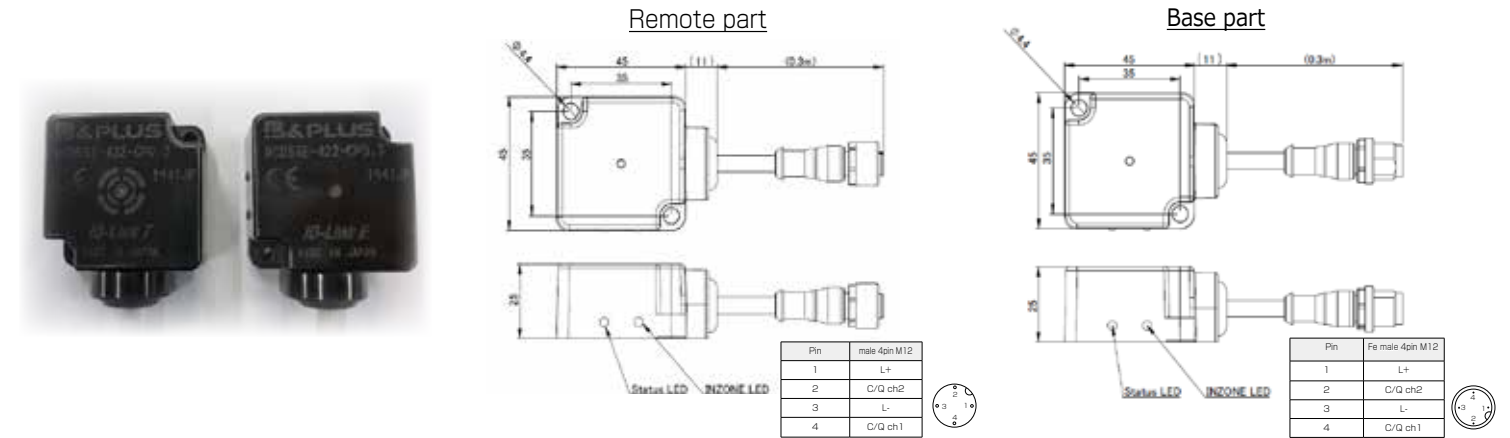
Type Remote / Base	RCD11T-211-PU-01 / RCD11E-211-PU-02
Supply voltage / Current consumption (Base)	24V DC \pm 5%(incl.ripple) \leq 3A
Drive / current (Remote)	24V \pm 1.5V DC / \leq 1A
Center offset (Remote)	3...10mm / \pm 5mm (depending of Poqwe supply)
protection class	IP 67
Communication method	RS232C, asynchronous system(start-stop)/full-duplex transmission
Communication speed/transmission	4800...38,000 bps, No data check/ \leq 20 μ sec.
Cable	PUR/ ϕ 7.6, 4 \times 0.75mm ² shield
Material Material Case/Active face	Aluminum + alumite processing (metal part) / ABS+PBT (resin part)
Weight Remote	Body600g+cable90g \times 1m
Base	Body620g+cable90g \times 2m

UART communication Remote part



Remote	Cable color	Base side	Cable color
Signal		Signal	
TXD	White	24V	Brown
RXD	Yellow	TXD	White
GND	Green	RXD	Yellow
FG	Shield	0V,GND	Green
		FG	Shield

Type Remote part / Base par	RCD11T-RIN01-01 / RCD11E-RIN02-02
Supply voltage / Current consumption (Base)	24V DC \pm 5%(incl.ripple)/ \leq 200mA
Center offset (Remote)	2...8mm / \pm 5mm
protection class	IP 67
Communication method	UART communication, asynchronous system(start-stop)/full-duplextransmission
Communication speed/transmission	max.9600bps / max.1Byte
Cable Remote	PUR ϕ 5.6mm, 3 \times 0.3mm ²
Base	PUR ϕ 5.6mm, 4 \times 0.3mm ²
Material	ABS (Case), SPCC (mounting), SUM (spacer)
Weight Remote	Body260g+cable90g \times 1m
Base	Body260g+cable90g \times 2m



Remote part	RCD55T-422-CP0.3	Type	Base part	RCD55E-422-CP0.3
Drive voltage / current	24V ± 1.5V DC / ≤ 1A	Power supply		24V DC ± 5% (incl. ripple)
Transmission distance	0...3mm	Current consumption	active	Max 1.4 A (with 1A drive)
Center offset	Transmission distance is within 2 mm ± 4 mm Transmission distance 2 mm ... 3 mm ± 1.5mm	static		Max 0.1 A (when not facing)
Operating / Storage temperature	0...+50°C / -25...+70°C	Signal transmission		IO-Link
Operating / Storage temperature	35 ~ 90%RH / 35 ~ 90%RH (no condensation)	Transmission speed/ SIO mode		COM2 38.4Kbps/ not adaptable to SIO mode
protection class	IP 67	Data delay time		≤ 100 μs
Material Case/ Heat sink	PBT/ Aluminum	Start-up time		≤ 1 sec * 3
Weight	Body 90g + Cable 20g	Operating / Storage temperature		0...+50°C / -25...+70°C
Body Connector cable	M12/4pin Female A coding	Operating / Storage temperature		(Do not use it with condensation 35 ~ 90%RH / 35 ~ 90%RH)
Remote splitter[Option]	VA-5YG9 *1	protection class		IP 67
Connection cable[Option]	XS2W-D421-C81-F (1m, AWG20, each pins are connected) active	Protection circuit		Reverse connection protection ,overheat temperature protection , over-current protection overheating protection when facing metal * 4
	CBL-IOL-B-01 (1m, AWG20, for devices with 24V set to PIN2)	Material Housing/Heat sink		PBT/ Aluminum
	CBL-IOL-L-01 (1m, AWG20, for devices with signal set to PIN2)	Weight		Body 90g + Cable 20g
		Body Connector cable		M12/4pin Male A coding
		Connection cable[Option]		XS2F-D421-DC0-F (2m, AWG20) *5
		Power splitter[Option]		VA-4YG-5B *5
		Base splitter[Option]		VA-5YG8 *1
		Connection cable[Option]		XS2W-D421-D81-F (2m, AWG20)

* 1 For 2-channel connection, options are available.
 * 2 Pin2 of the system is assigned a ch2 signal. If you are connecting a 1ch IO-Link device that has a power or signal assigned to pin2, use the user's guide and use the appropriate connection cable.
 * 3 The time between the remote and the base is energized in the transmission area before non-contact signal transmission is possible. Shows. The time to establish communication as IO-Link depends on the system configuration.
 * 4 Metal protection is a function of metal heat prevention when metal opposed. Since it is not guaranteed to operate with all metals, please do not deliberately confront the metal against the communication surface.
 * 5 We offer options to match the current consumption of the selected IO-Link device.

The cable length from the connection part of the remote or base part to the device should be up to 10m.

2 types of IO-Link device management can be done by 2ch!!transmission, and can further strengthen IoT system management!

Comparing	B&PLUS Compact shape IO-Link specification	Company A/Company B IO-Link specification
power	24V/1A	24V/500mA
Channel	2CH	1ch
Figure	45x45x25	M30x77 ~ 88(mm)

B&PLUS Compact shape IO-Link specification

2ch transmission
24V/1A

The 2ch compact remote can connect two IO-Link devices. (2 types of ID managements)

Company A/Company B IO-Link specification

1 ch transmission
24V/500mA

Connectible IO-Link Only 1 device (One ID management)

Just replace!

Design change is not required!

Conventional 12-point transmission compact-shaped remote Because it is the same shape as the sensor system, it is easy to replace! No design changes are required.

Compact 12 signal transmission specification

Compact IO-Link specification

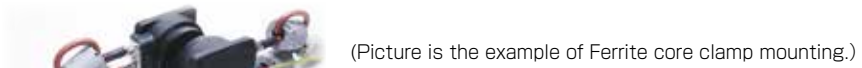
Convenient item, the Bracket is also available.
 *Only for IO-Link remote system

Type code: B-PLUS-BLOP-01

[Actual installation drawing]

Please use

■ Be sure to Install the ferrite core clamp if it is included.



Wireless Power Supply by
B & PLUS K.K.