Remote Sensor System Switch signal Terminal unit version 8 signals transmission

: RS8TA-222D-S04, RS8T-222D-S04 Remote terminal

RS8TA-222P-S04, RS8T-222P-S04

Transmission head : RSH8T-030-PU-CP-_ _,RSH8T-TF030-PU-CP-_ _ RSH8E-030N-PU-_ _,RSH8E-TF030N-PU-_ _ Output head

RSH8E-030P-PU-__,RSH8E-TF030P-PU-_

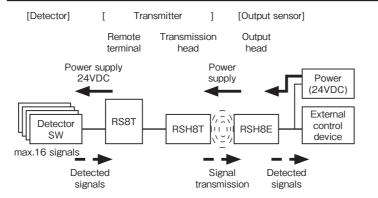
Attention for Installation

(Read this section thoroughly before installation.)

Before using the Remote Sensor, read this manual carefully. During installation and operation, pay close attention to the safety aspect.

- Ensure the power is switched off during installation or maintenance operations
- Use a regulated power supply, e.g. switch-model type. Simpler power supplies, such as a full-wave rectification type, will cause the permissible ripple rating to be exceed and may cause malfunction
- Ensure correct connections by reference to the wiring diagram.
- To avoid malfunction caused by induction noise, cable should be kept apart from motor or other power cable.

Construction of the system



[Function of each component]

Transmission head:

Anti-weld slag type:

Output head

Output signal

Output type

Supply voltage

Current consumption

Frequency of operation

Connection cable Material Housing

Protection class

Load current

LED

Type code NPN

PNP

Detector SW: Detected signals is transmitted to Remote terminal.

DC2W/Mechanical switch or DC3W switch is connected Remote terminal:

and detected signals is transmitted to Tranmission head.

Provides power for Detector SW, also passes detected signals from Detector to Output Head.

Standard type

8 signals (Detect:8, INZONE:1)

PUR/ φ 7.7、2 x 21 AWG + 9 x 25 AWG

24 V DC±10 % (incl. ripple)

max.50 mA (1signal)

Nickel plated brass

RSH8E-030N-PU-

RSH8E-030P-PU-

NPN or PNP

=< 500 mA

20 Hz

Operating surface Nylon 12

Ambient temperature 0...+50 deg.C

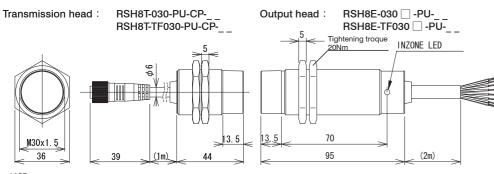
INZONE

Puts out detected signal to external controller, also sends Output head:

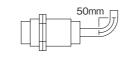
power for operating of Detector and Transmitter.

Fluorine resin cap & Fluorine resin coated housing to (TF in type name) protect against weld slag

Transmission head / Output head specification







Do not pull the cable strongly.

Anti-weld slag type

RSH8E-TF030N-PU-

RSH8E-TF030P-PU-

Fluorinated resin coated

Fluorinated resin

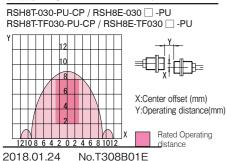
A057			
Transmission head	Standard type	Anti-weld slag type	
Type code	RSH8T-030-PU-CP	RSH8T-TF030-PU-CP	
Operating distance	28 mm		
Center offset	±3 mm		
Connection cable	M12 connector		
Material Housing	Nickel plated brass	Fluorinated resin coated	
Operating surface	Nylon 12	Fluorinated resin	
Ambient temperature	0+50 deg.C.		
Protection class	IP 67		

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.
When using an output sensor with cable length longer than 10m, a measure to protect the sensor from serge

Please note that the signal may become unstable (false signal or chattering) when the transmission distance and the center offset are outside the specification range.

The inzone signal is a preliminary signal for confirming that the output signal is established within the specification range. Please note that it does not guarantee signals output outside the specification

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

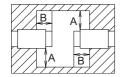


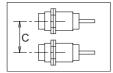
Installation

Influence of surrounding metal and Mutual interference

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

IP 67

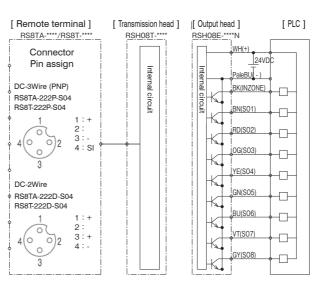




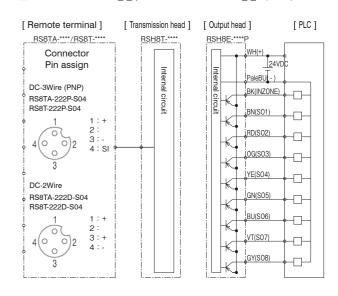
			(mm
Type code	Α	В	С
RSH8E-030 □ -PU RSH8T-030-PU-CP-	30	30	160
N31101-030-F0-CF			

Wiring

■ RSH8E-030N-PU-_ , RSH8E-TF030N-PU-_ (NPN)

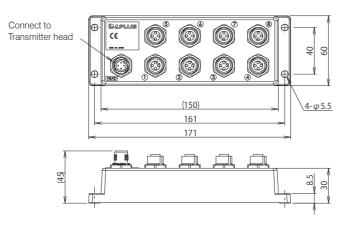


■ RSH8E-030P-PU-_ , RSH8E-TF030P-PU-_ (PNP)



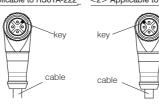
Remote Terminal

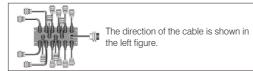
Remote Terminal: RS8TA-222D-S04 / RS8TA-222P-S04 / RS8T-222D-S04 / RS8T-222P-S04



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.





		DC 2-wire detector switch	DC 3-wire detector switch
Type code tyep-1		RS8TA-222D-S04	RS8TA-222P-S04
(see connec	ctor type) type-2	RS8T-222D-S04	RS8T-222P-S04
Applicable Transmission head		RSH8T-030-PU-CP	RSH8T-030-PU-CP
		RSH8T-TF030-PU-CP	RSH8T-TF030-PU-CP
Applicable Detector SW		DC 2-wire	DC 3-wire
Driving Voltage		22 V DC ± 10%	12 V DC ± 10%
Driving Current		5 mA (1 signal)	150 mA
Connection Detector SW		max. 8 signals	max.8 signals
Spec of Detector SW	Supply Voltage	22 V DC \pm 10 %	12 V DC \pm 10 %
	ON Voltage	=<6.5 V	=<3.5 V
	Load current	=>5 mA	=>0.5 mA
	Leakage current	=<1 mA	=<0.1 mA
Material Housing		PPS	PPS
Ambient temperature		0+50 ℃	0+50 °C
Protection class		IP67	IP67

The unused connector should be protected in an exclusive protection cap (option). PROT-M12 protection cap

http://www.b-plus-kk.jp/ E-mail bp-tech@b-plus-kk.jp