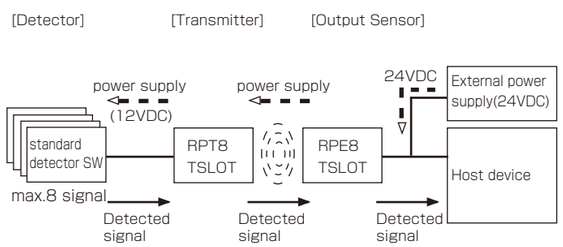
Remote sensor system
Switch signal specification DC 3-wire
8 signal transmission
TSLOT type

Transmitter : RPT8-TSLOT-PU_ _
Output Sensor : RPE8-TSLOTP-PU_ _
Output Sensor : RPE8-TSLOTN-PU_ _

Safety Considerations

Please read carefully before using and full attention to Safety Considerations. (See the attached T318501)

System configuration



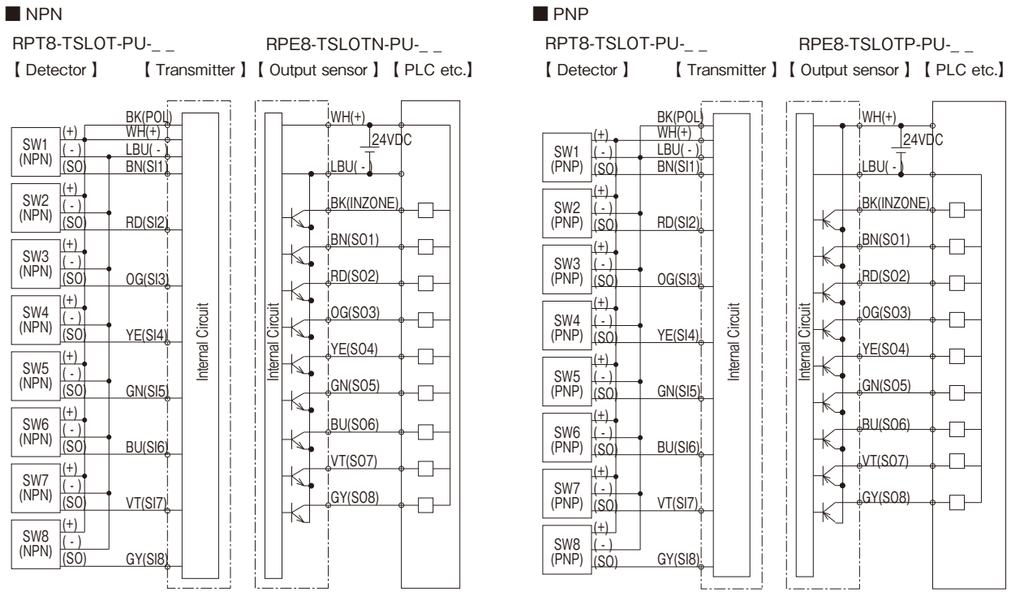
【Function of each component】

Detector : Connects detector switches (max.8) and transmits the detected signals to Transmitter.

Transmitter : Provides power for Detector, also passes detected signals from Detector to Output Sensor.

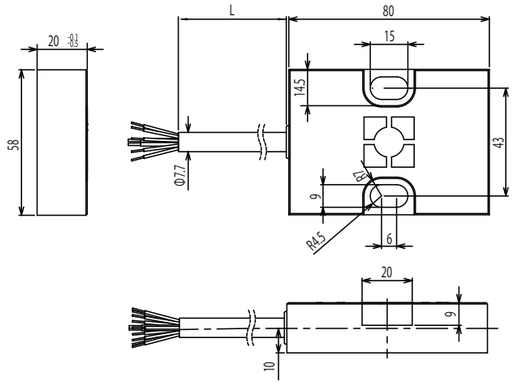
Output Sensor: Puts out detected signal to external controller, also sends.

Wiring diagram

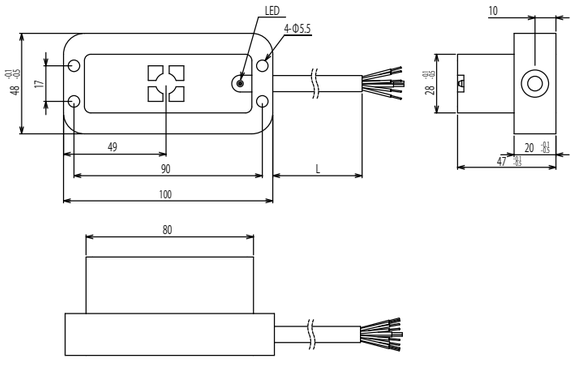


Dimension

Transmitter : RPT8-TSLOT-PU_ _



Output Sensor : RPE8-TSLOTN-PU_ _(NPN output)
RPE8-TSLOTP-PU_ _ (PNP output)



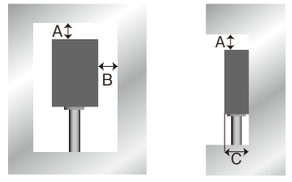
Specification

Transmitter		
Type code	DC 3-wire	RPT8-TSLOT-PU_ _
Drive voltage		12V DC ± 1.5V
Drive current		≦ 150mA
Input signals		8 signals
Operating distance		2...5mm
Permissible center off-set		≦ ± 3mm
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / φ 7.7 , 2x21AWG+9x25AWG
Material	Main part case	PBT
Weight		Body 130g + Cable 70g/m

Output Sensor		
Type code	NPN output	RPE8-TSLOTN-PU_ _
	PNP output	RPE8-TSLOTP-PU_ _
Operating voltage		24V DC ± 10% (incl.ripple)
Current consumption		≦ 400mA
Output signals		8 signals + 1 signal (Inzone)
Load current		max.50mA per output
Frequency response		60Hz
LED display		Inzone
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / φ 7.7 , 2x21AWG+9x25AWG
Material	Main part case	PBT
Weight		Body 250g + Cable 70g/m

Influence of surrounding metal

To avoid influence of surrounding metal, keep minimum spacing as described below.

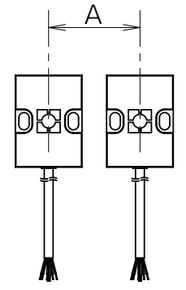


Type code	A (mm)	B (mm)	C (mm)
RPT8-TSLOT-PU_ _	5	16	20

※ For the output sensor, I will omit for T-slot mounted the premise.

Mutual interference

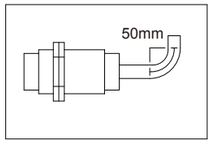
In order to prevent mutual interference between parallel-mounted sensors, keep minimum spacing as described below.



Type code	A (mm)
RPT8-TSLOT-PU_ _	200
RPE8-TSLOTP-PU_ _	
RPE8-TSLOTN-PU_ _	

Installation

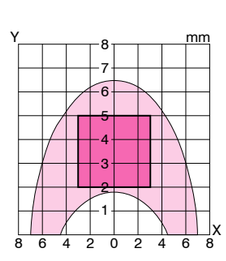
The minimum bending radius for thesensors are 50mm.
Never pull the cable strong in installing.

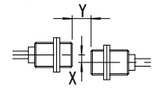


The tightening torque of the screws
⇒ RPT8-TSLOT-PU M8x2 6.15N·m
RPE8-TSLOTN/P-PU M5x4 2.98N·m

Transmitting area diagram

【Example: Supply voltage at 24V DC】





X:center off-set(mm)
Y:transmitting distance(mm)

Drive current
≦ 150mA

Operating area

B & PLUS K.K.
http://www.b-plus-kk.jp/ E-mail b-plus@b-plus-kk.jp

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