

Operating temperature up to 80°C, New Remote Sensor expands its application fields.

Remote system

8 switch signals
transmission

Ambient temperature
0 ... 80 °C

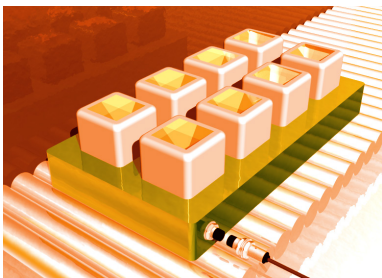
- Power supply :
12 V DC/5 mA per detector sensor
- Signal transmission :
8 detector signals
- Applicable detector sensor :
DC 2-wire switch or mechanical switch



● Solution for workpiece-sensing application :

In a hardening chamber

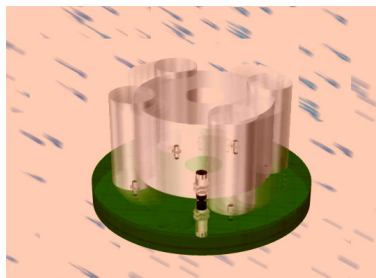
- ✓ Reducing setup time
- ✓ Improvement of work efficiency



After filling resin, a palette carries workpieces into the hardening chamber automatically without stopping to change a palette.

On a rotary table

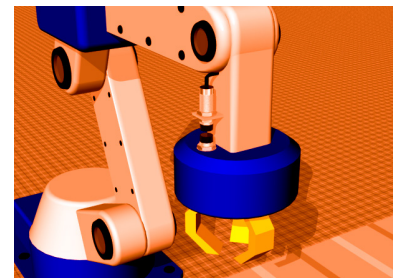
- ✓ 80°C hot water is available
- ✓ Degree of protection IP 67



RS08 keeps transmitting power and detected signal while the table is rotating in a heated air or in showering of hot water.

On a robot hand

- ✓ Working in a high temperature
- ✓ Reducing the work load



Because the connector of the sensor is not necessary, RS08 reduces exchange time of the robot hand.

Remote Sensor system
Switch signal

Switch signal

DC2W

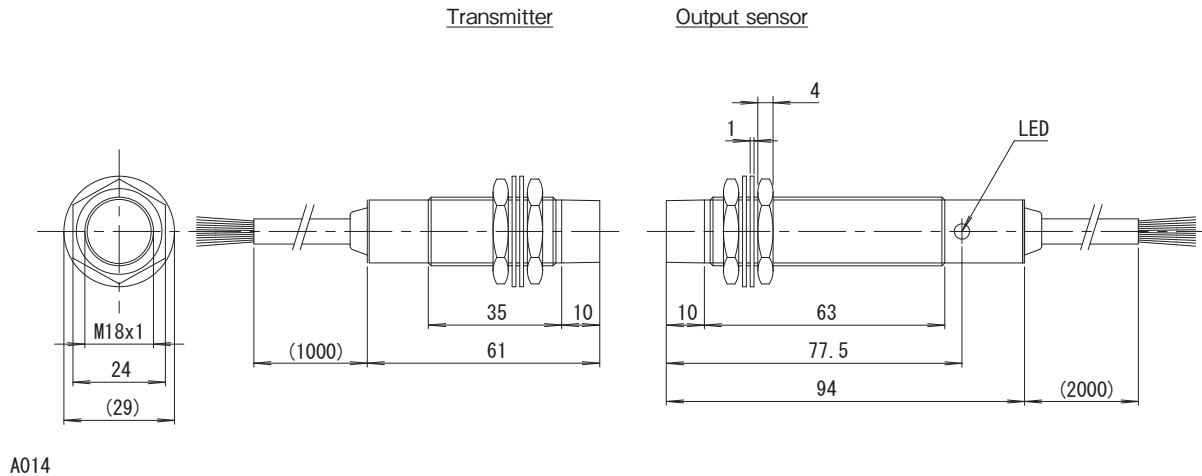
Number of signals
8

High temperature environment

For DC 2-wire detector / Standard type / High temperature environment use

Size
M18

Operating distance
0.5...3mm



Transmitter	
Type code	DC 2-wire RS08TA-018D-PU-01
Drive voltage	12V ± 1.5V DC
Drive current	5 mA / 1 signal
Number of Input	8 signals
Operating distance	0.5...3 mm
Center offset	± 2.5 mm
Drive current	5 mA
Operating temperature	0...+80 °C
Degree of protection	IP 67
Cable	PUR / ϕ 7.9 , 9 x 0.18 mm ²
Material Housing	Nickel plated brass
Active surface	Nylon 12

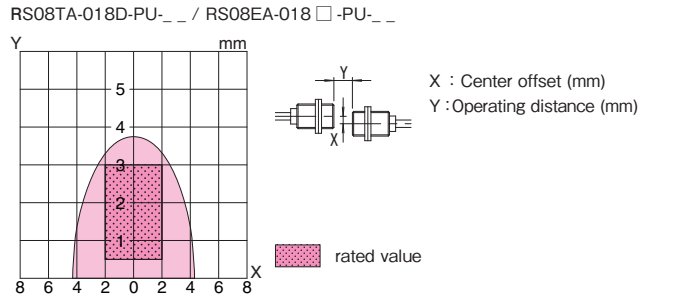
Output sensor	
Type code	NPN RS08EA-018N-PU-02 PNP RS08EA-018P-PU-02
Operating voltage	24V DC ± 10 % (incl. ripple)
Current consumption	≤ 150 mA
Number of output	8 detect signals + 1 In Zone signal
Load capacity	max.50 mA / 1 output
Frequency of operation	60 Hz
LED	In Zone
Operating temperature	0...+80 °C
Degree of protection	IP 67
Cable	PUR / ϕ 7.7 , 2 x 0.5mm ² + 9 x 0.18 mm ²
Material Housing	Nickel plated brass
Active surface	Nylon 12

Applicabel detector switch

Supply voltage	12V DC
Current consumption	---
Residual voltage	≤ 3.5 V
Load capacity	≤ 5 mA

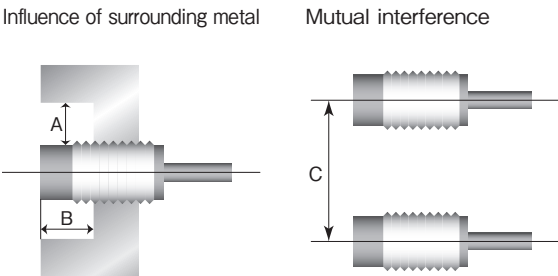
Please sure to use applicabel detector switch according to the specification on left.

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



Installation notes

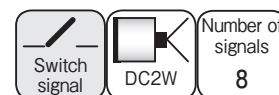
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.



Type code	A(mm)	B(mm)	C(mm)
RS08TA-018D-PU-__	18	18	110
RS08EA-018 □ -PU-__			

Remote Sensor system

Switch signal



High temperature environment

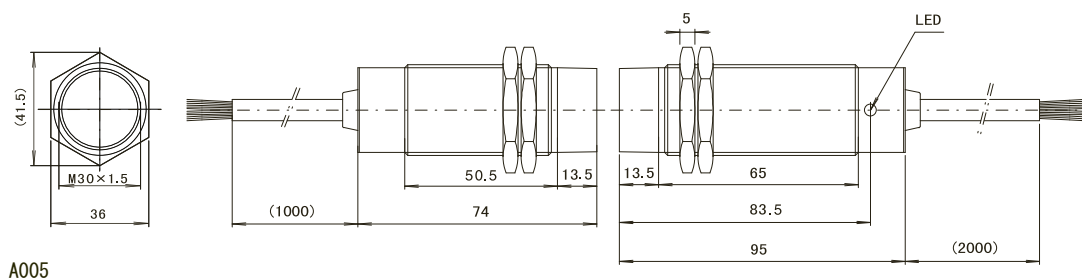
For DC 2-wire detector / Standard type / High temperature environment use

Size
M30

Operating distance
2...7mm

Transmitter

Output sensor



A005

Transmitter	
Type code	DC 2-wire RS08TA-030D-PU-01
Drive voltage	12 V \pm 1.5 V DC
Drive current	5 mA / 1 signal
Number of Input	8 signals
Operating distance	2...7 mm
Center offset	\pm 3 mm
Drive current	5 mA
Operating temperature	0...+80 °C
Degree of protection	IP 67
Cable	PUR / ϕ 7.9 , 9 x 0.18 mm ²
Material Housing	Nickel plated brass
Active surface	Nylon 12

available at the end of 2009

Output sensor	
Type code	NPN RS08EA-030N-PU-02 PNP RS08EA-030P-PU-02
Operating voltage	24V DC \pm 10 % (incl. ripple)
Current consumption	\leq 150 mA
Number of output	8 detect signals + 1 In Zone signal
Load capacity	max.50 mA / 1 output
Frequency of operation	60 Hz
LED	In Zone
Operating temperature	0...+80 °C
Degree of protection	IP 67
Cable	PUR / ϕ 7.7 , 2 x 0.5 mm ² + 9 x 0.18 mm ²
Material Housing	Nickel plated brass
Active surface	Nylon 12

available at the end of 2009

Applicabel detector switch

Supply voltage	12V DC
Current consumption	---
Residual voltage	\leq 3.5V
Load capacity	\leq 5mA

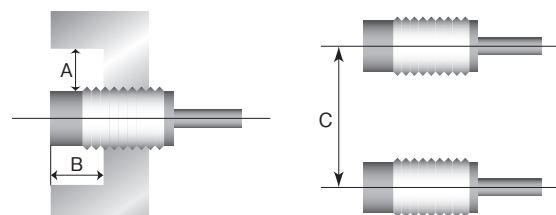
Please sure to use applicabel detector switch according to the specification on left.

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.

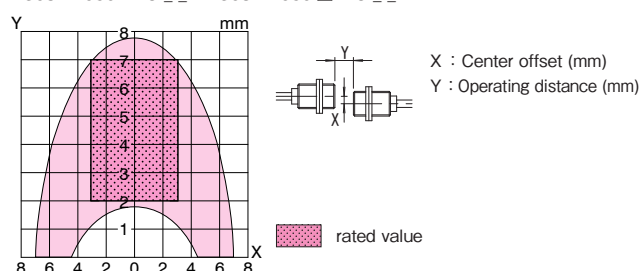
Influence of surrounding metal

Mutual interference



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

RS08TA-030D-PU-__ / RS08EA-030 □ -PU-__



Type code	A(mm)	B(mm)	C(mm)
RS08TA-030D-PU-__	30	20	200
RS08EA-030 □ -PU-__			

Wireless Power Supply by
B & PLUS K.K.

Mail : b-plus-usa@b-plus-kk.com

Web : <http://www.b-plus-kk.com>

* Contents is subject to change without notice.