# **B**&PLUS.

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

## Remote system

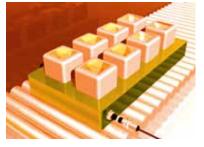
8 switch signals transmission

Ambient temperature 0 ... 80 °C



### Solution for workpiece-sensing application :

- In a hardening chamber
- Reducing setuptime
- 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



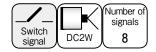
RS08 keeps transmitting power and detected signal while the table is rotating in a heated air or in showering of hot water.

#### On a robot hand

Workng 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.



High temperature environment

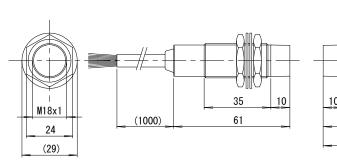
Size M18 Operating distance

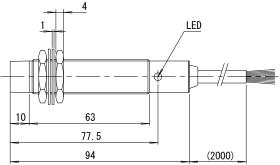
0.5...3mm

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

Transmitter

Output sensor





A014

Transmitter		Output sensor		
Type code DC 2-wire	RS08TA-018D-PU-01	Type NPN	RS08EA-018N-PU-02	
		code PNP	RS08EA-018P-PU-02	
Drive voltage	$12V \pm 1.5V DC$	Operating voltage	$24V DC \pm 10 \%$ (incl. ripple)	
Drive current	5 mA / 1 signal	Current consumption	≦ 150 mA	
Number of Input	8 signals	Number of output	8 detect signals + 1 In Zone signal	
Operating distance	0.53 mm	Load capacity	max.50 mA / 1 output	
Center offset	± 2.5 mm	Frequency of operation	60 Hz	
Drive current	5 mA	LED	In Zone	
Operating temperature	0+80 °C	Operating temperature	0+80 °C	
Degree of protection	IP 67	Degree of protection IP 67		
Cable	PUR / φ 7.9 , 9 x 0.18 mm <sup>2</sup>	Cable PUR / $\phi$ 7.7 , 2 x 0.5mm <sup>2</sup> + 9 x 0.18 mm		
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass	
Active surface	Nylon 12	Active surface	Nylon 12	

#### Applicabel detector switch

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

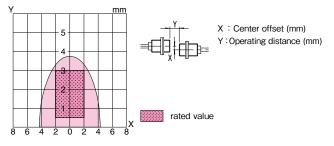
Please sure to use applicable detector switch according to the specification on left.

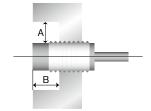
#### Installation notes

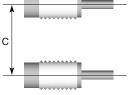
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimun free zone as described below.

Influence of surrounding metal

Mutual interference







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



High temperature environment

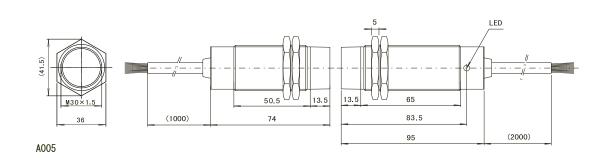
Size M30 Operating distance

2...7mm

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

**Transmitter** 

Output sensor



Transmitter		
Type code DC 2-wire	RS08TA-030D-PU-01	
Drive veltere		
Drive voltage	$12 V \pm 1.5 V DC$	
Drive current	5 mA / 1 signal	
Number of Input	8 signals	
Operating distance	27 mm	
Center offset	± 3 mm	
Drive current	5 mA	
Operating temperature	0 +80 °C	
Degree of protection	IP 67	
Cable	PUR / $\phi$ 7.9, 9 x 0.18 mm <sup>2</sup>	
Material Housing	Nickel plated brass	
Active surface	Nylon 12	

Output sensor			
Type NPN	RS08EA-030N-PU-02		
code PNP	RS08EA-030P-PU-02		
Operating voltage	24V DC $\pm$ 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 / $\phi$ 7.7 , 2 x 0.5 mm <sup>2</sup> + 9 x 0.18 mm <sup>2</sup>		
Material Housing	Nickel plated brass		
Active surface	Nylon 12		

available at the end of 2009

available at the end of 2009

#### Applicabel detector switch

Supply voltage	12V DC	Please sure to use
Current consumption		detector switch accor specification on left.
Residual voltage	≦ 3.5V	specification on left.
Load capacity	$\leq$ 5mA	

applicable ording to the

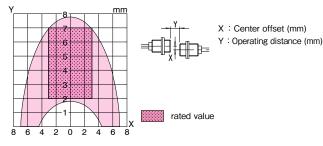
#### Installation notes

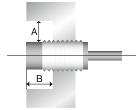
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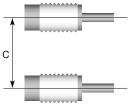
Influence of surrounding metal

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	20	20	200
RS08EA-030 🗆 -PU	30	20	200

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\*Specification is subject to change without notice.