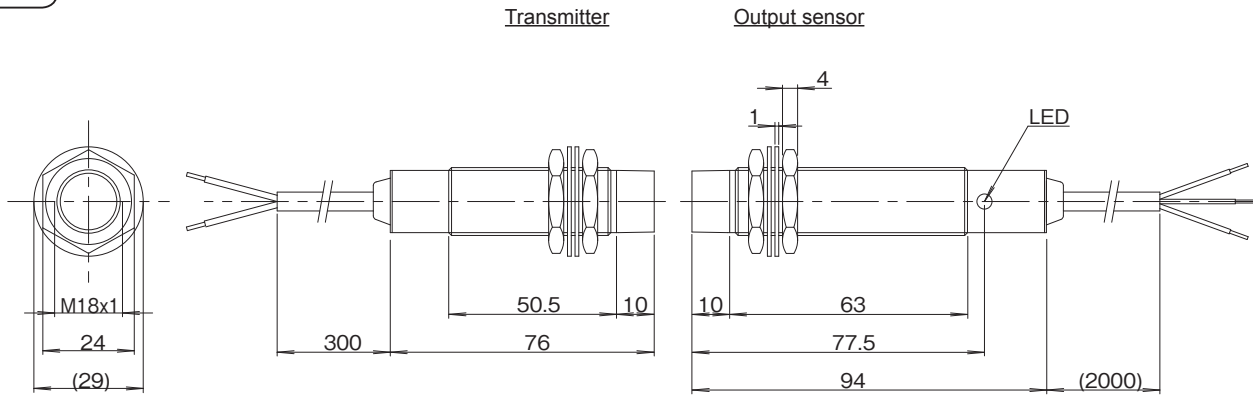


for 1 thermocouple K type / Size : M18

Operating distance  
1...4mm



A035

Wiring C014 / P.126

Transmitter	
Type Code	Thermocouple K 0...1000°C <b>RTT-1804-K100</b>
Sensor type	Thermocouple K type
No. of Input signal	1 signal
Measuring range	0...1000°C
Operating distance	1...4mm
Center offset	±2.5mm
Operating temperature	0...+60°C
Protection class	IP67
Cable	Compensating lead wire 2x0.34mm <sup>2</sup> , ellipse 5x3.5mm <sup>2</sup>
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 75 g + Cable 40 g × 0.3 m
Remark	

Output sensor	
Type Code	Current output <b>RTE-1804E-PU-02</b>
Supply voltage	24V DC ±5% (including ripple)
Current consumption	≤ 150mA
No. of Output signal	1 signal
Output	4...20mA
Resolution	0.1%
Response delay	≤ 0.5 sec.
LED	Inzone
Operating temperature	0...+60°C
Protection class	IP67
Cable	PUR / φ 5 , 3x0.34mm <sup>2</sup>
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 95 g + Cable 35 g × 2 m
Remark	

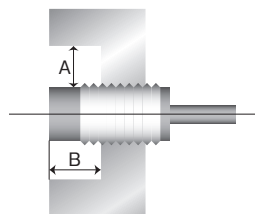
### Notes

- Please use thermocouple K type complying to JIS.
- The temperature range is allowed 0...1000 degree C.
- Transmitter compensates the thermal voltage at the standard base temperature and converts to digital databased on this temperature range.
- Output is current source, therefore please connect the load between output and negative.

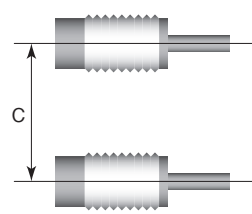
### Installation notes

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.

#### Surrounding metal



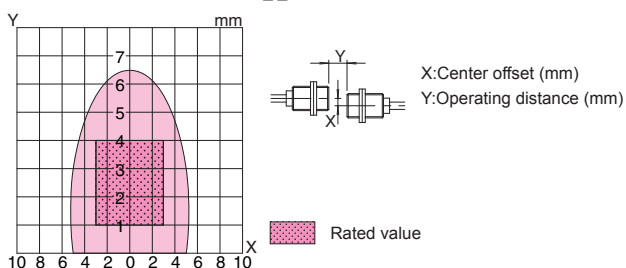
#### Parallel installation

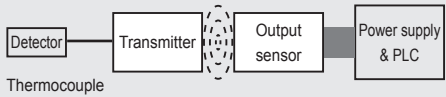


Type Code	A(mm)	B(mm)	C(mm)
RTT-1804-K100	20	15	110
RTE-1804E-PU-__			

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

RTT-1804-K100 / RTE-1804E-PU-\_\_





RTT-1804-K  
RTE-18



Signal type  
Analog

Sensor type  
Thermocouple K

**Remote Sensor**


DC 3-wire  
Detector type

DC 3-wire  
Terminal unit

DC 2-wire  
Detector type

DC 2-wire  
Terminal unit

Exclusive  
detector type

Thermocouple  
K type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

Exclusive  
sensor

Terminal box  
Other unit

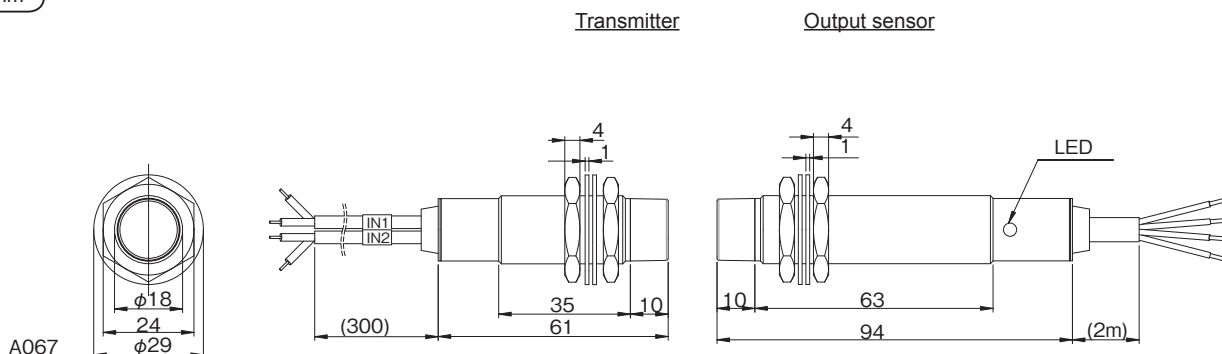
**Wiring**

Discontinued  
plans

Index

for 2 thermocouple K type / Size : M18

Operating distance  
1...4mm



2 compensating lead wires Outer diameter : 3.2x5.1mm  
color of outer sheath : Blue, VX-G:7/0.3x2

Wiring C015 / P.126

Transmitter	
Type	0...1000°C <b>RS02T-018-K1000</b>
Code	0...300°C <b>RS02T-018-K300</b>
Applicable sensor	JIS Thermocouple K
No. of Input signals	2 signals ( 1CH, 2CH)
Measuring range	0...1000°C or 0...300°C
Compensated cold junction	≤ ±0.5°C
Operating distance	1...4mm
Center offset	±2.5mm
Operating temperature	0...+80°C
Protection class	IP67
Cable	Compensating lead wire(JIS) 0.9mm x 2 All heat-resistant vinyl (90°C)
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	120 g (incl. cable)
Remark	

Output sensor	
Type	<b>RS02E-018E-PU-02</b>
Code	
Supply voltage	24V DC ±5% (including ripple)
Current consumption	≤ 150mA
No. of Output signals	4 ... 20 mA × 2
Load current	≤ 400Ω
Resolution	= 0.04% Full-scale range
Response delay	≤ 0.5 sec.
Linearity	≤ ±0.8% Full-scale range
LED	Inzone (data valid)
Operating temperature	0...+80°C
Protection class	IP67
Cable	PUR、φ 5mm/4x0.25mm <sup>2</sup>
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 95g + Cable 30g x 2m
Remark	

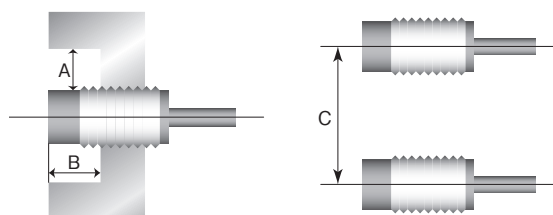
### Notes

- Please use thermocouple K type complying to JIS.
- The measurement temperature range is within the specifications mentioned above.
- Output is current source, therefore please connect the load between output and negative.

### Installation notes

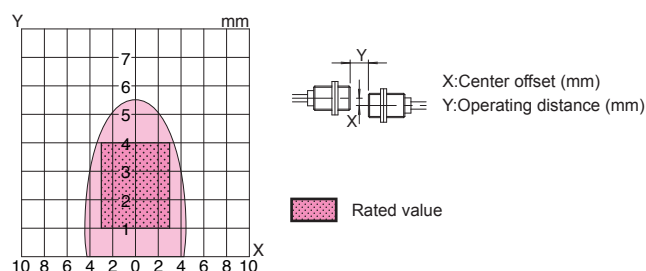
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

- Surrounding metal
- Parallel installation

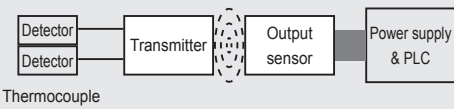


### Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RS02T-018-K \_\_\_ / RS02E-018E-PU-\_\_



Type Code	A(mm)	B(mm)	C(mm)
RS02T-018-K1000	20	15	110
RS02T-018-K300			
RS02E-018E-PU-__			



Thermocouple

RS02T-018K  
RS02E-018

RS02T-018J  
RS02E-018

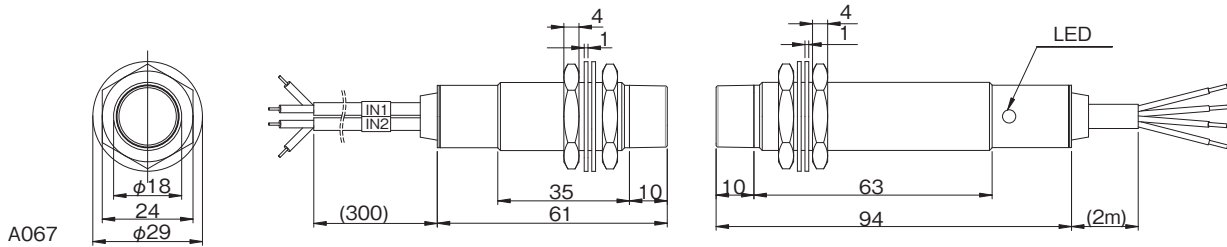
2  
signals

for 2 thermocouple J type / Size : M18

Operating distance  
1...4mm

Transmitter

Output sensor



2 compensating lead wires Outer diameter : 3.2x5.1mm  
color of outer sheath : Yellow, JX-G:7/0.3x2

Wiring C015 / P.126

Transmitter	
Type Code	0...300°C <b>RS02T-018-J300</b>
Applicable sensor	JIS Thermocouple J
No. of Input signals	2 signals (1CH, 2CH)
Measuring range	0...300°C
Compensated cold junction	≤ ±0.5°C
Operating distance	1...4mm
Center offset	±2.5mm
Operating temperature	0...+80°C
Protection class	IP67
Cable	Compensating lead wire(JIS) 0.9mm x 2 All heat-resistant vinyl (90°C)
Material	Housing: Nickel plated brass Active face: Nylon 12
Weight	120 g (incl. cable)
Remark	

Output sensor	
Type Code	<b>RS02E-018E-PU-02</b>
Supply voltage	24V DC ±5% (including ripple)
Current consumption	≤ 150mA
No. of Output signals	4...20 mA×2
Load current	≤ 400Ω
Resolution	= 0.04% Full-scale range
Response delay	≤ 0.5 sec.
Linearity	≤ 0.8% Full-scale range
LED	Inzone (data valid)
Operating temperature	0...+80°C
Protection class	IP67
Cable	PUR、φ 5mm/4x0.25mm <sup>2</sup>
Material	Housing: Nickel plated brass Active face: Nylon 12
Weight	Body 95 g + Cable 30 g x 2m
Remark	

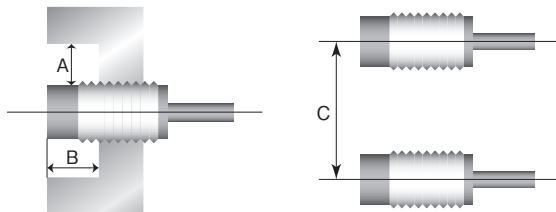
Notes

- Please use thermocouple K type complying to JIS.
- The measurement temperature range is within the specifications mentioned above.
- Output is current source, therefore please connect the load between output and negative.

Installation notes

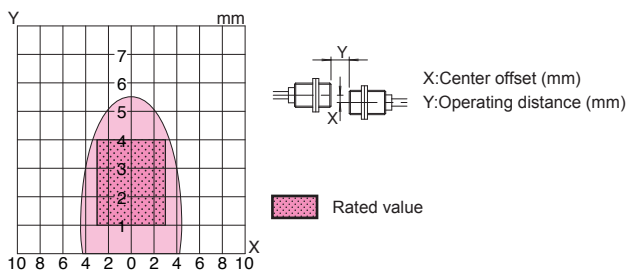
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

- Surrounding metal
- Parallel installation



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

RS02T-018-J300 / RS02E-018E-PU-\_\_



Signal type  
Analog

Sensor type  
Thermocouple K · J

Remote Sensor

DC 3-wire  
Detector type

DC 3-wire  
Terminal unit

DC 2-wire  
Detector type

DC 2-wire  
Terminal unit

Exclusive  
detector type

Thermocouple  
K / J type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

Exclusive  
sensor

Terminal box  
Other unit

Wiring

Discontinued  
plans

Index

Type Code	A(mm)	B(mm)	C(mm)
RS02T-018-J300	20	15	110
RS02E-018E-PU-__			