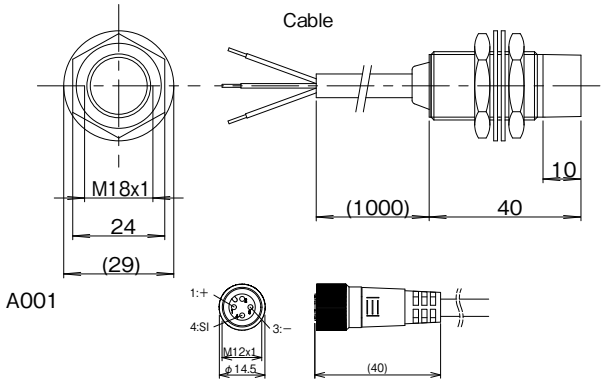
for 1 sensor / Size : M18

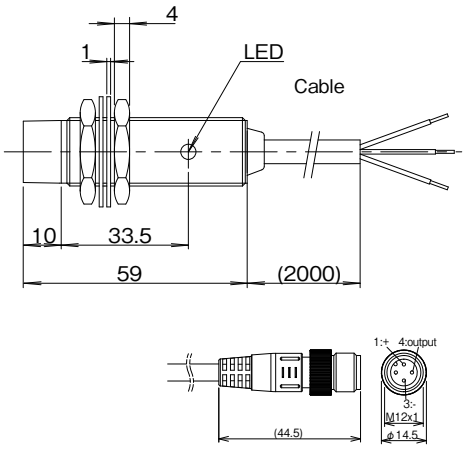
Operating distance 0...4mm

Transmitter



Pre-wired connector

Output sensor



Pre-wired connector

Wiring	C001/P.114

Transmitter				
		Cable	Pre-wired connector	
Type Code	NPN	RPT-1804N-PU-01	RPT-1804N-PU-CP0.3	
	PNP	RPT-1804P-PU-01	RPT-1804P-PU-CP0.3	
Drive voltage		12V ± 1.5V DC		
Drive current		max.30mA		
No. of input signal		1		
Operating distance		0...4mm	0...3mm	0...2.5mm
Center offset		± 3mm	± 2.5mm	± 2mm
Drive current		≤ 5mA	≤ 20mA	≤ 30mA
Operating temperature		0...+50℃		
Protection class		IP67		
Cable		PUR / Ø5 , 3x0.34mm²		
Material	Housing	Nickel plated brass		
	Active face	Nylon 12		
Weight		Body 45g + Cable35g × 1m /+Connector cable 30cm 40g		
Anti-weld slag type		Cable	Pre-wired connector	
Type Code	NPN	RPT-TF1804N-PU-01	RPT-TF1804N-PU-CP0.3	
	PNP	RPT-TF1804P-PU-01	RPT-TF1804P-PU-CP0.3	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

Output sensor			
		Cable	Pre-wired connector
Type Code	NPN	RPE-1804N-PU-02	RPE-1804N-PU-CP0.3
	PNP	RPE-1804P-PU-02	RPE-1804P-PU-CP0.3
Operational voltage		24V DC ± 5% (incl. ripple)	
Current consumption		≤ 150mA	
No. of output signal		1	
Load current		max.50mA	
Frequency of operation		25Hz	
LED		Signal output indication	
Operating temperature		0...+50℃	
Protection class		IP67	
Cable		PUR / Ø5 , 3x0.34mm²	
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight		Body 60g + Cable35g × 2m /+Connector cable 30cm 30g	
Anti-weld slag type		Cable	Pre-wired connector
Type Code	NPN	RPE-TF1804N-PU-02	RPE-TF1804N-PU-CP0.3
	PNP	RPE-TF1804P-PU-02	RPE-TF1804P-PU-CP0.3
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

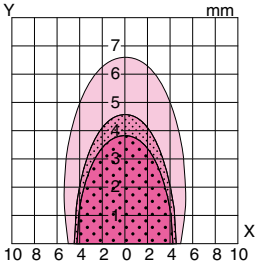
Applicable sensor

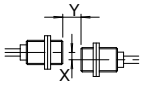
Supply voltage	12V DC
Current consumption	≤ 30mA
Residual voltage	≤ 3.5V
Load current	---

Please use a sensor which works definitely in the condition described on left.

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

RPT-1804 □ -PU-_ _ / RPE-1804 □ -PU-_ _





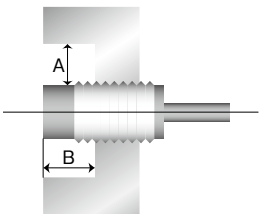
X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 30mA
Drive current ≤ 20mA
Drive current ≤ 5mA

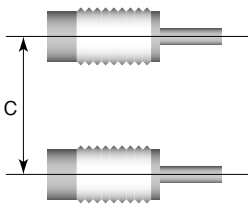
Installation notes

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

Surrounding metal



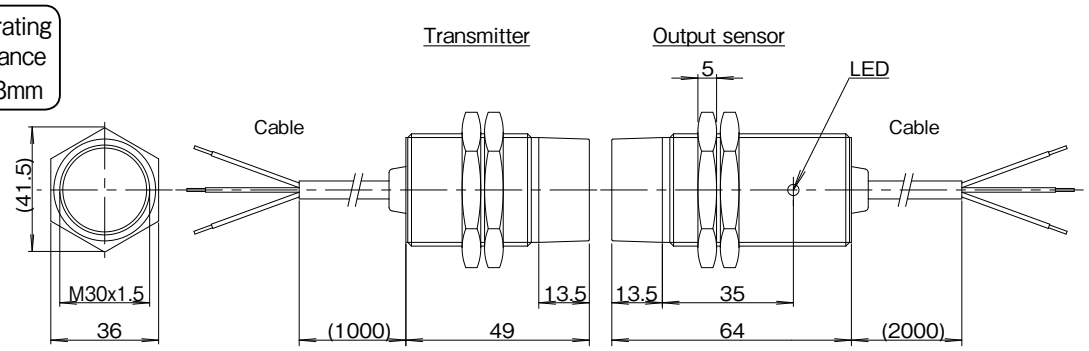
Parallel installation



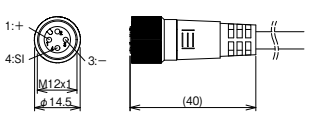
Type Code	A(mm)	B(mm)	C(mm)
RPT-1804 □ -PU-_ _	20	15	110
RPE-1804 □ -PU-_ _			

for 1 sensor / Size : M30

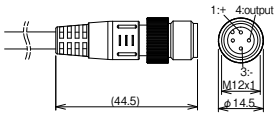
Operating distance 1...8mm



A002



Pre-wired connector



Pre-wired connector

Wiring	C001/P.114

Transmitter				
		Cable	Pre-wired connector	
Type Code	NPN	RPT-3008N-PU-01	RPT-3008N-PU-CP0.3	
	PNP	RPT-3008P-PU-01	RPT-3008P-PU-CP0.3	
Drive voltage		12V ± 1.5V DC		
Drive current		max.30mA		
No. of input signal		1		
Operating distance		1...8mm	1...6mm	1...4.5mm
Center offset		± 5mm	± 4mm	± 3mm
Drive current		≤ 5mA	≤ 20mA	≤ 30mA
Operating temperature		0...+50℃		
Protection class		IP67		
Cable		PUR / Ø5 , 3x0.34mm²		
Material	Housing	Nickel plated brass		
	Active face	Nylon 12		
Weight		Body 110g + Cable35g × 1m/+Connector cable 30cm 40g		
Anti-weld slag type		Cable	Pre-wired connector	
Type Code	NPN	RPT-TF3008N-PU-01	RPT-TF3008N-PU-CP0.3	
	PNP	RPT-TF3008P-PU-01	RPT-TF3008P-PU-CP0.3	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

Output sensor			
		Cable	Pre-wired connector
Type Code	NPN	RPE-3008N-PU-02	RPE-3008N-PU-CP0.3
	PNP	RPE-3008P-PU-02	RPE-3008P-PU-CP0.3
Operational voltage		24V DC ± 5% (incl. ripple)	
Current consumption		≤ 150mA	
No. of output signal		1	
Load current		max.50mA	
Frequency of operation		25Hz	
LED		Signal output indication	
Operating temperature		0...+50℃	
Protection class		IP67	
Cable		PUR / Ø5 , 3x0.34mm²	
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight		Body 130g + Cable35g × 2m/+Connector cable 30cm 30g	
Anti-weld slag type		Cable	Pre-wired connector
Type Code	NPN	RPE-TF3008N-PU-02	RPE-TF3008N-PU-CP0.3
	PNP	RPE-TF3008P-PU-02	RPE-TF3008P-PU-CP0.3
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

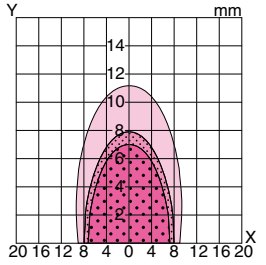
Applicable sensor

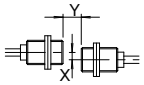
Supply voltage	12V DC
Current consumption	≤ 30mA
Residual voltage	≤ 3.5V
Load current	---

Please use a sensor which works definitely in the condition described on left.

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

RPT-3008 □ -PU-_ _ / RPE-3008 □ -PU-_ _





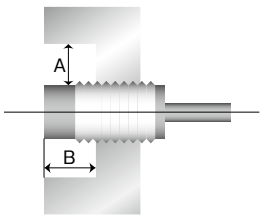
X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 30mA
Drive current ≤ 20mA
Drive current ≤ 5mA

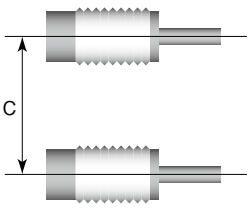
Installation notes

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

Surrounding metal



Parallel installation

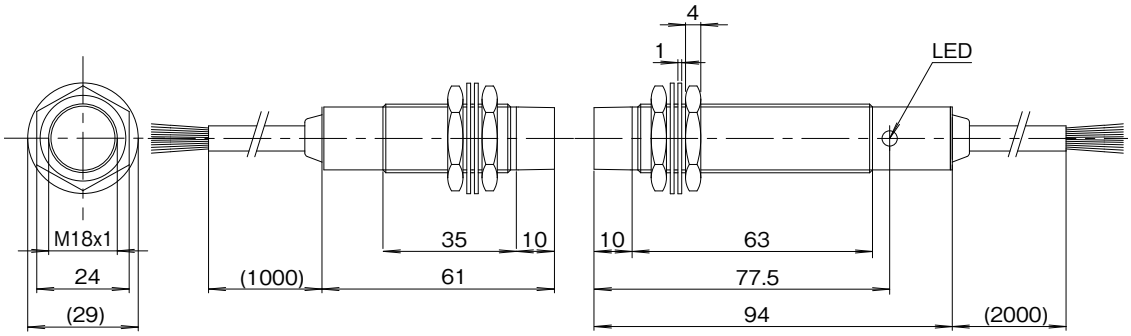


Type Code	A(mm)	B(mm)	C(mm)
RPT-3008 □ -PU-_ _	30	20	300
RPE-3008 □ -PU-_ _			

for max. 4 sensors / Size : M18

Operating distance 0.5...3mm

Transmitter Output sensor



A003

Wiring C002/P.114

Transmitter			
Type Code	NPN / PNP	RPTA-1803-PU-01	
Drive voltage		12V ± 1.5V DC	
Drive current		max.30mA	
No. of input signal		4	
Operating distance		0.5...3mm	0.5...3mm
Center offset		± 2.5mm	± 2mm
Drive current		≤ 20mA	≤ 30mA
Operating temperature		0...+50℃	
Protection class		IP67	
Cable		PUR / Ø6.3 , 7x0.3mm²	
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight		Body 60g + Cable60g × 1m	
Anti-weld slag Type Code	NPN	RPTA-TF1803-PU-01	
	PNP		
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Output sensor		
Type Code	NPN	RPEA-1803N-PU-02
	PNP	RPEA-1803P-PU-02
Operational voltage		24V DC ± 5% (incl. ripple)
Current consumption		≤ 170mA
No. of output signal		4 +1(InZone)
Load current		max.50mA per output
Frequency of operation		30Hz
LED		InZone
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø6.3 , 7x0.3mm²
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 90g + Cable60g × 2m
Anti-weld slag Type Code	NPN	RPEA-TF1803N-PU-02
	PNP	RPEA-TF1803P-PU-02
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

Applicable sensor

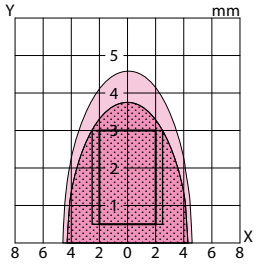
Supply voltage	12V DC
Total current consumption*	≤ 30mA
Residual voltage	≤ 3.5V
Load current	---

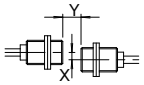
*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

RPTA-1803-PU-_ _ / RPEA-1803 □ -PU-_ _





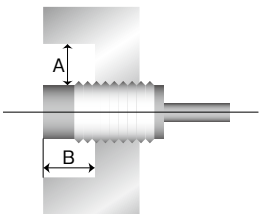
X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 30mA
Drive current ≤ 20mA

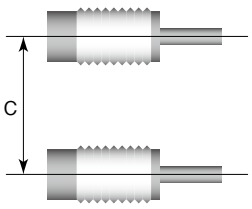
Installation notes

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

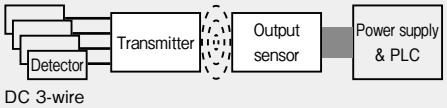
Surrounding metal



Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RPTA-1803-PU-_ _	18	18	110
RPEA-1803 □ -PU-_ _			

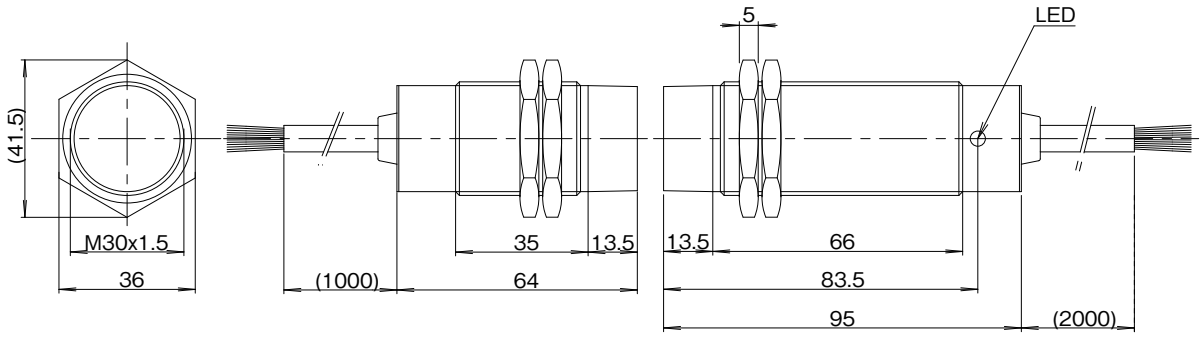


DC 3-wire

for max. 4 sensors / Size : M30

Operating distance 1...5mm

Transmitter Output sensor



A004

Wiring C002/P.114

Transmitter			
Type Code	NPN / PNP	RPTA-3005-PU-01	
Drive voltage		12V ± 1.5V DC	
Drive current		max.40mA	
No. of input signal		4	
Operating distance		1...5mm	1...5mm
Center offset		± 6mm	± 3mm
Drive current		≤ 30mA	≤ 40mA
Operating temperature		0...+50℃	
Protection class		IP67	
Cable		PUR / Ø6.3 , 7x0.3mm²	
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight		Body 130g + Cable60g × 1m	
Anti-weld slag Type Code	NPN / PNP	RPTA-TF3005-PU-01	
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Output sensor		
Type Code	NPN	RPEA-3005N-PU-02
	PNP	RPEA-3005P-PU-02
Operational voltage		24V DC ± 5% (incl. ripple)
Current consumption		≤ 150mA
No. of output signal		4 +1(InZone)
Load current		max.50mA per output
Frequency of operation		30Hz
LED		InZone
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø6.3 , 7x0.3mm²
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 160g + Cable60g × 2m
Anti-weld slag Type Code	NPN	RPEA-TF3005N-PU-02
	PNP	RPEA-TF3005P-PU-02
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

± ±

Applicable sensor

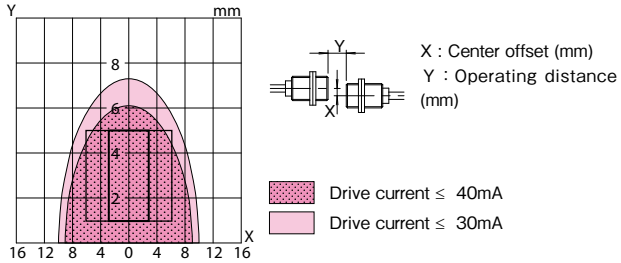
Supply voltage	12V DC
Total current consumption*	≤ 40mA
Residual voltage	≤ 3.5V
Load current	---

*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

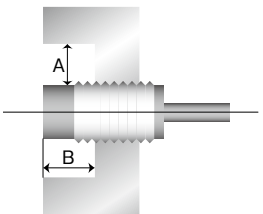
RPTA-3005-PU-_ _ / RPEA-3005 □ -PU-_ _



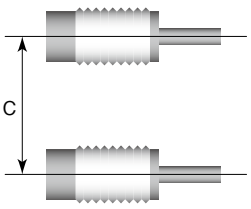
Installation notes

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

Surrounding metal



Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RPTA-3005-PU-_ _	40	32	300
RPEA-3005 □ -PU-_ _			

Remote Sensor System
Switch Signal

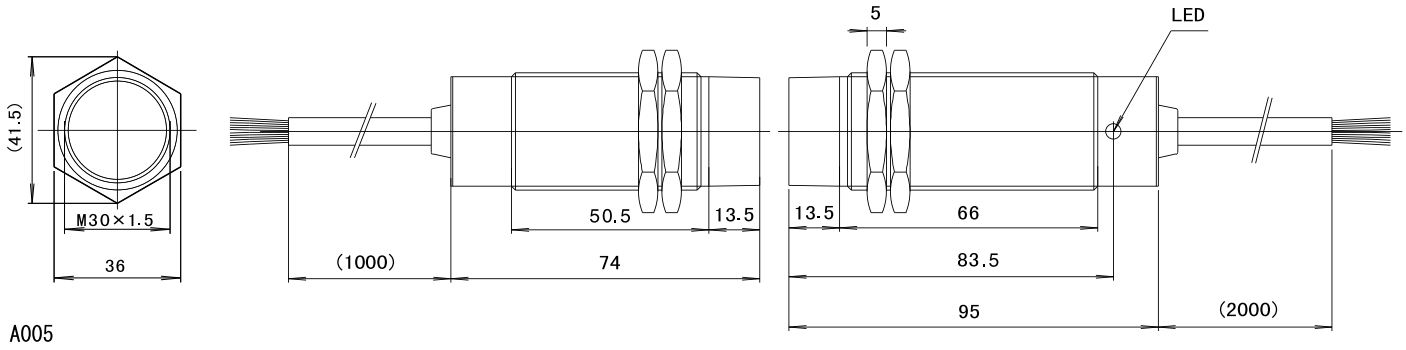
DC 3-wire Detector / Regular type
8 signal transmission

8 signal

for max. 8 sensors / Size : M30

Operating distance 2...5mm

Transmitter Output sensor



A005

Wiring	C004/P.115

Transmitter		
Type Code	NPN	RGPT-3005-V1215-PU-01
	PNP	
Drive voltage		12V ± 1.5V DC
Drive current		max.150mA
No. of input signal		8
Operating distance		2...5mm
Center offset		± 3mm
Drive current		≤ 150mA
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm^2 + 9x0.18mm^2
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 150g + Cable75 g × 1 m
Remarks		

Output sensor		
Type Code	NPN	RGPE-3005-V1215N-PU-02
	PNP	RGPE-3005-V1215P-PU-02
Operational voltage		24V DC ± 10% (incl. ripple)
Current consumption		≤ 400mA
No. of output signal		8 +1(InZone)
Load current		max.50mA per output
Frequency of operation		60Hz
LED		InZone
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm^2 + 9x0.18mm^2
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 180g + Cable75g × 2 m
Remarks		

Applicable sensor

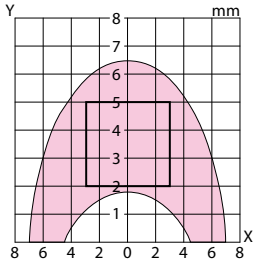
Supply voltage	12V DC
Total current consumption*	≤ 150mA
Residual voltage	≤ 3.5V
Load current	---

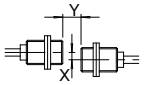
*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

RGPT-3005-V1215-PU-_ _ / RGPE-3005 □ -V1215-PU-_ _





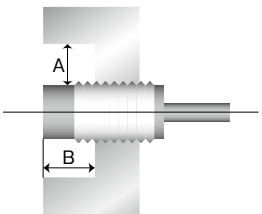
X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 150mA

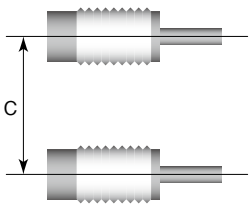
Installation notes

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

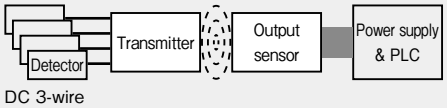
Surrounding metal



Parallel installation



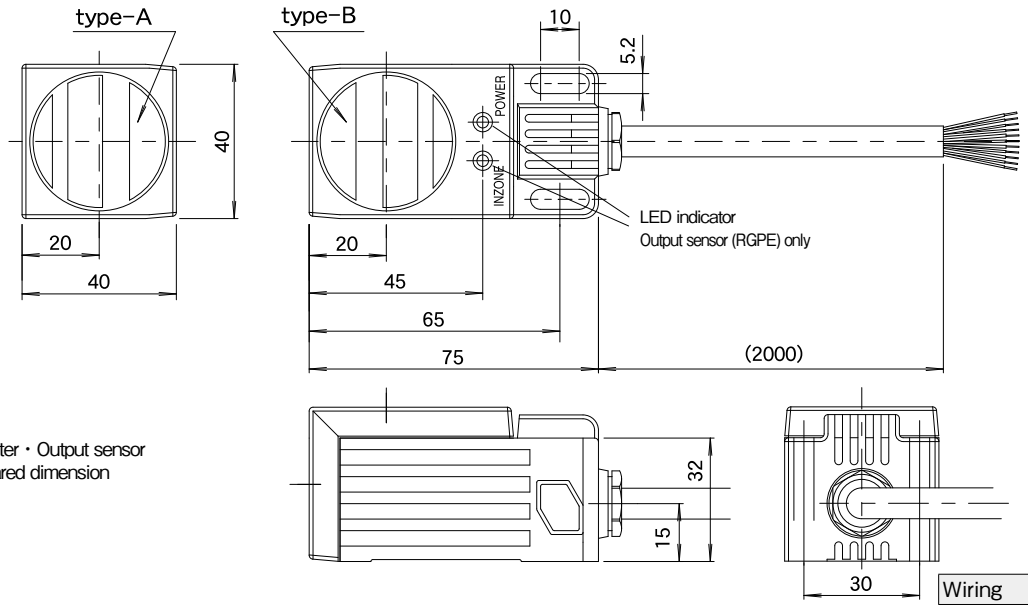
Type Code	A(mm)	B(mm)	C(mm)
RGPT-3005-V1215-PU-_ _	30	20	200
RGPE-3005-V1215 □ -PU-_ _			



DC 3-wire

for max. 8 sensors / Size : 40X40

Operating distance 3...8mm



Transmitter · Output sensor shared dimension

Wiring C004/P.115

Transmitter		
Type Code	NPN / PNP	RGPT-4008-V1220A/B*-PU-01
Drive voltage		12V ± 1.5V DC
Drive current		max.200mA
No. of input signal		8
Operating distance		3...8mm
Center offset		± 3mm
Drive current		≤ 200mA
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm² + 9x0.18mm²
Material	Housing	Aluminum (metal part)
	Active face	ABS+PBT (resin part)
Weight		Body 220g + Cable75 g × 1 m
Remarks		*Selectable active face A (front) or B (top).

Output sensor		
Type Code	NPN	RGPE-4008-V1220NA/B*-PU-02
	PNP	RGPE-4008-V1220PA/B*-PU-02
Operational voltage		24V DC ± 10% (incl. ripple)
Current consumption		≤ 500mA
No. of output signal		8 +1(InZone)
Load current		max.50mA per output
Frequency of operation		60Hz
LED		InZone (Yellow) / Power (Green)
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm² + 9x0.18mm²
Material	Housing	Aluminum (metal part)
	Active face	ABS+PBT (resin part)
Weight		Body 220g + Cable75g × 2 m
Remarks		*Selectable active face A (front) or B (top).

Applicable sensor

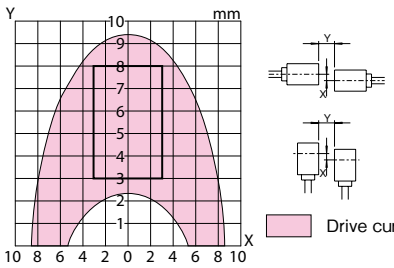
Supply voltage	12V DC
Total current consumption*	≤ 200mA
Residual voltage	≤ 3.5V
Load current	---

*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

RGPT-4008-V1220A/B-PU-_ _ / RGPE-4008-V1220 □ A/B-PU-_ _



X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 200mA

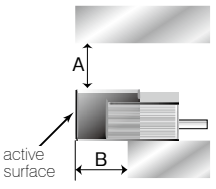
Combination between RGPT-4008 and RGPE-4008

Refer to the followings for the combination of active faceA and B

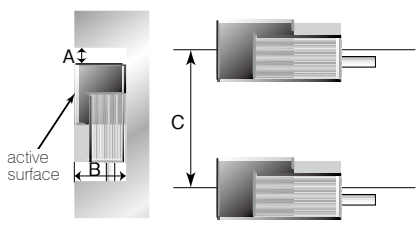
Installation notes

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

Surrounding metal



Parallel installation

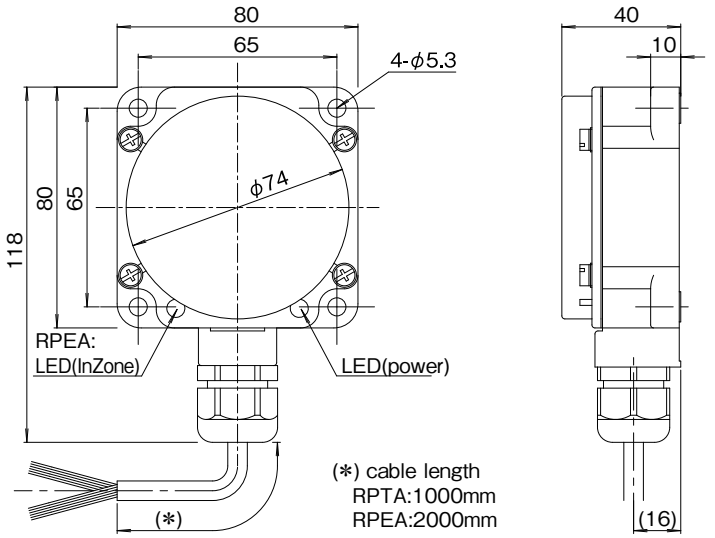


Type Code	A(mm)	B(mm)	C(mm)
RGPT-4008-V1220A/B-PU-_ _	40	40	300
RGPE-4008-V1220 □ A/B-PU-_ _			

for max. 8 sensors / Size : 80 x 80

Operating distance 2...15mm

Transmitter・Output sensor shared dimension



LED indicator :
Output sensor (RPEA) only

A007

(*) cable length
RPTA:1000mm
RPEA:2000mm

Wiring	C003/P.114

Transmitter			
Type Code	NPN	RPTA-8015-PU-01	
	PNP		
Drive voltage		12V ± 1.5V DC	
Drive current		max.100mA	
No. of input signal		8	
Operating distance		2...22mm	4...15mm
Center offset		± 12mm	± 10mm
Drive current		≤ 50mA	≤ 100mA
Operating temperature		0...+50℃	
Protection class		IP67	
Cable		PUR / Ø7.9 , 12x0.18mm²	
Material	Housing	Nylon	
	Active face	Nylon	
Weight		Body 440g + Cable80 g × 1 m	
Remarks			

Output sensor		
Type Code	NPN	RPEA-8015N-PU-02
	PNP	RPEA-8015P-PU-02
Operational voltage		24V DC ± 5% (incl. ripple)
Current consumption		≤ 300mA
No. of output signal		8 +1(InZone)
Load current		max.50mA per output
Frequency of operation		30Hz
LED		InZone (Yellow) / Power (Green)
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.9 , 12x0.18mm²
Material	Housing	Nylon
	Active face	Nylon
Weight		Body 440g + Cable80g × 2 m
Remarks		

Applicable sensor

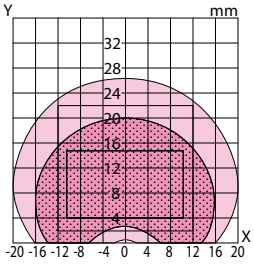
Supply voltage	12V DC
Total current consumption*	≤ 100mA
Residual voltage	≤ 3.5V
Load current	---

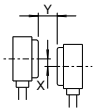
*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

RPTA-8015-PU-_ _ / RPEA-8015 □ -PU-_ _





X : Center offset (mm)
Y : Operating distance (mm)

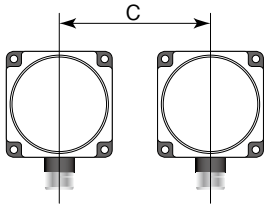
Drive current ≤ 100mA
Drive current ≤ 50mA

Installation notes

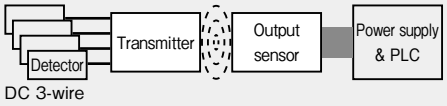
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Transmitters or Output sensors, keep the minimum distances as described below.

Surrounding metal

Parallel installation



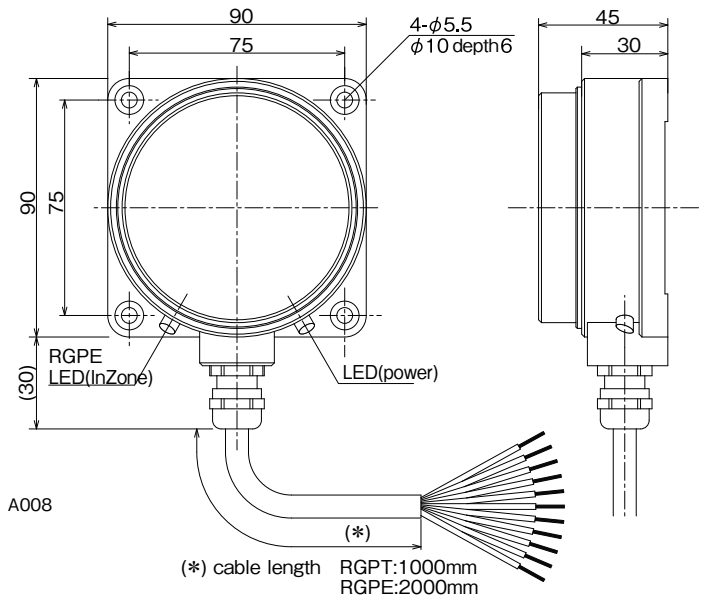
Type Code	A(mm)	B(mm)	C(mm)
RPTA-8015-PU-_ _	20	40	200
RPEA-8015 □ -PU-_ _			



for max. 8 sensors / Size : 90 x 90

Operating distance 4...12mm

Transmitter・Output sensor shared dimension



LED indicator : Output sensor (RGPE) only

(*) cable length RGPT:1000mm RGPE:2000mm

Wiring C004/P.115

Transmitter		
Type Code	NPN / PNP	RGPT-9012-V2430-PU-01
Drive voltage		24V ± 1.5V DC
Drive current		max.300mA
No. of input signal		8
Operating distance		4...12mm
Center offset		± 7mm
Drive current		≤ 300mA
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm² + 9x0.18mm²
Material	Housing	Aluminum + alumite processing (metal part)
	Active face	ABS+PBT (resin part)
Weight		Body 650 g + Cable75g × 1 m
Remarks		The AC 2-wire sensor can be connected by the interchange conversion amplifier unit (P.110).

Output sensor		
Type Code	NPN	RGPE-9012-V2430N-PU-02
	PNP	RGPE-9012-V2430P-PU-02
Operational voltage		24V DC ± 10% (incl. ripple)
Current consumption		≤ 1A
No. of output signal		8 +1(InZone)
Load current		max.50mA per output
Frequency of operation		60Hz
LED		InZone (Yellow) / Power (Green)
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR / Ø7.7 , 2x0.5mm² + 9x0.18mm²
Material	Housing	Aluminum + alumite processing (metal part)
	Active face	ABS+PBT (resin part)
Weight		Body 650g + Cable75g × 2 m
Remarks		

Applicable sensor

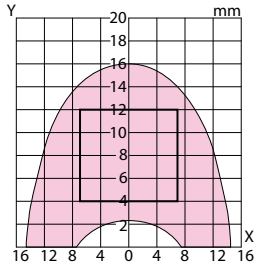
Supply voltage	24V DC
Total current consumption*	≤ 300mA
Residual voltage	≤ 6V
Load current	---

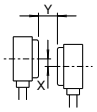
*Total current consumption of all connected sensor.

Please use a sensor which works definitely in the condition described on left.

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

RGPT-9012-V2430-PU-_ _ / RGPE-9012-V2430 □ -PU-_ _





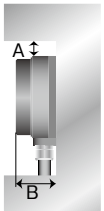
X : Center offset (mm)
Y : Operating distance (mm)

Drive current ≤ 300mA

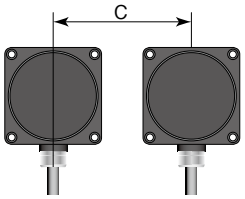
Installation notes

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

Surrounding metal

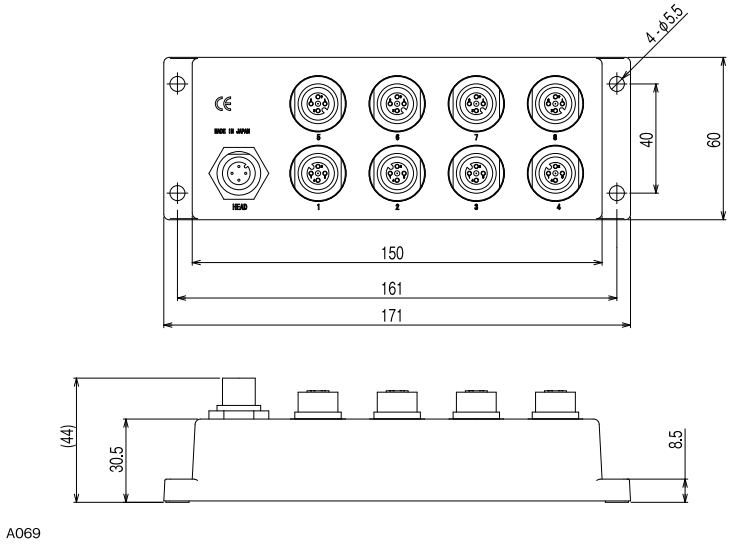


Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RGPT-9012-V2430-PU-_ _	50	45	300
RGPE-9012-V2430 □ -PU-_ _			

for max. 8 sensors Terminal unit type / Remote Terminal



A069

This dimensional drawing shows connector type 1.

Wiring	C025/P.119

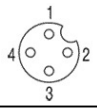
		Transmitter ／ Remote terminal
Type Code	Connector type 1	RS8TA-222P-S04
	Connector type 2	RS8T-222P-S04
Applicable sensor		DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage		12V DC ± 10%
Drive current		150mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)
Operating temperature		0...+50℃
Protection class		IP67
Connection	Sensor	Connector M12 (Female) x 8
	Transmitting head	Connector M12 (Male) x 1
Material	Housing	PPS
Weight		600 g
Remarks		The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≤ 150mA
Residual voltage	≤ 3.5V
Load current	---

*Total current consumption of all connected sensor.

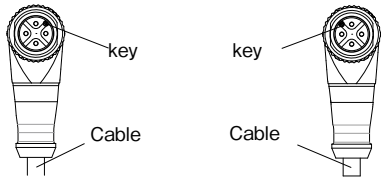
Please use a sensor which works definitely in the condition described on left.

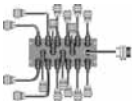
Pin assigned of connector for sensors		1 : + 2 : 3 : - 4 : SI

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.

1 :Applicable to RS8TA-222_ 2 :Applicable to RS8T-222_





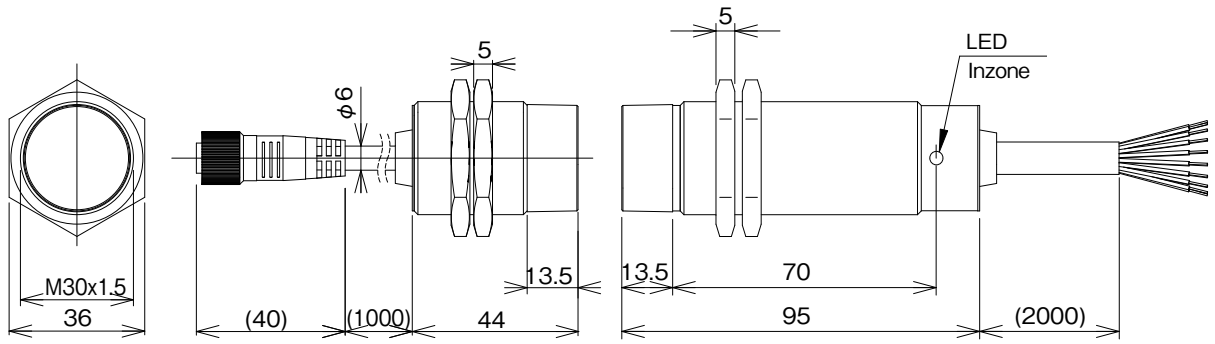
The direction of the cable is shown in the left figure.

The straight connector can be used to both type of Remote Terminal.

for max. 8 sensors Terminal unit type / Size : M30

Operating distance 2...8mm

Transmitting head Output sensor



A057

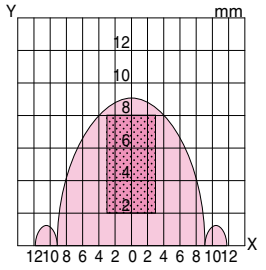
Wiring	C025/P.119

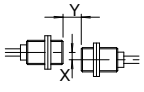
Transmitter / Transmitting head		
Type Code	conect to Remote Terminal	RSH8T-030-PU-CP1.0
Drive voltage		22V ± 1.5V DC
Drive current		120mA
Remote terminal		RS8TA-222_-S04、RS8T-222_-S04
Operating distance		2...8mm
Center offset		± 3mm
Drive current		120mA
Operating temperature		0...+50℃
Protection class		IP67
Cable		M12 connector Cable（1m、3m、5m）
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 120 g + Cable 50 g x 1 m
Anti-weld slag Type Code	connect to Remote Terminal	RSH8T-TF030-PU-CP1.0
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

Output sensor		
Type Code	NPN	RSH8E-030N-PU-02
	PNP	RSH8E-030P-PU-02
Operational voltage		24V DC ± 10% (incl. ripple)
Current consumption		≤ 500mA
No. of output signal		8 +1 (InZone)
Load current		max.50mA per output
Frequency of operation		20Hz
LED		InZone
Operating temperature		0...+50℃
Protection class		IP67
Cable		PUR/ Ø7.7、2x0.5mm^2+9x0.18mm^2
Material	Housing	Nickel plated brass
	Active face	Nylon 12
Weight		Body 160 g + Cable 75 g x 2 m
Anti-weld slag Type Code	NPN	RSH8E-TF030N-PU-02
	PNP	RSH8E-TF030P-PU-02
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

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

RSH8T-030-PU-CP_ _ / RSH8E-030 □ -PU-_ _





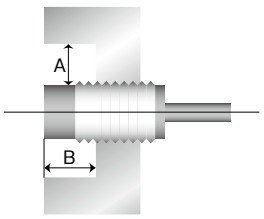
X : Center offset (mm)
Y : Operating distance (mm)

Rated value

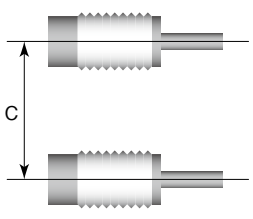
Installation notes

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

Surrounding metal

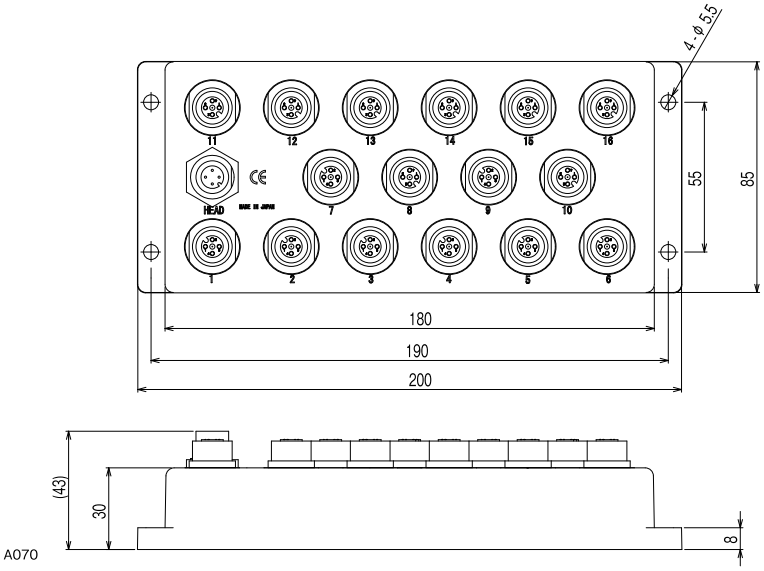


Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RSH8T-030-PU-CP_ _	30	30	160
RSH8E-030 □ -PU-_ _			

for max. 16 sensors Terminal unit type / Remote Terminal



This dimensional drawing shows connector type 1.

Wiring	C026/P.119

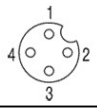
		Transmitter ／ Remote terminal
Type Code	Connector type 1	RS16TA-211P-S04
	Connector type 2	RS16T-211P-S04
Applicable sensor		DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage		12V DC ± 10%
Drive current		150mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)
Operating temperature		0...+50℃
Protection class		IP67
Connection	Sensor	Connector M12 (Female) x 16
	Transmitting head	Connector M12 (Male) x 1
Material	Housing	PPS
Weight		1000 g
Remarks		The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≤ 150mA
Residual voltage	≤ 3.5V
Load current	---

*Total current consumption of all connected sensor.

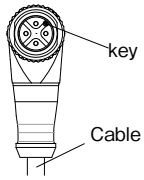
Please use a sensor which works definitely in the condition described on left.

Pin assigned of connector for sensors		1 : + 2 : 3 : - 4 : SI

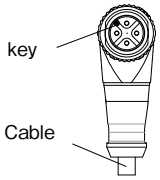
Applicable angle connector type (Detector's connector)

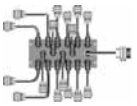
When using an angle connector, please use a connector of which key is positioned same as the following figure.

1 :Applicable to RS16TA-211_



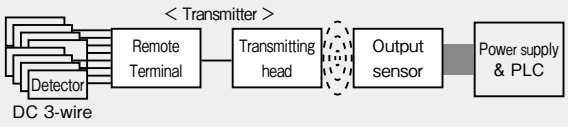
2 :Applicable to RS16T-211_





The direction of the cable is shown in the left figure.

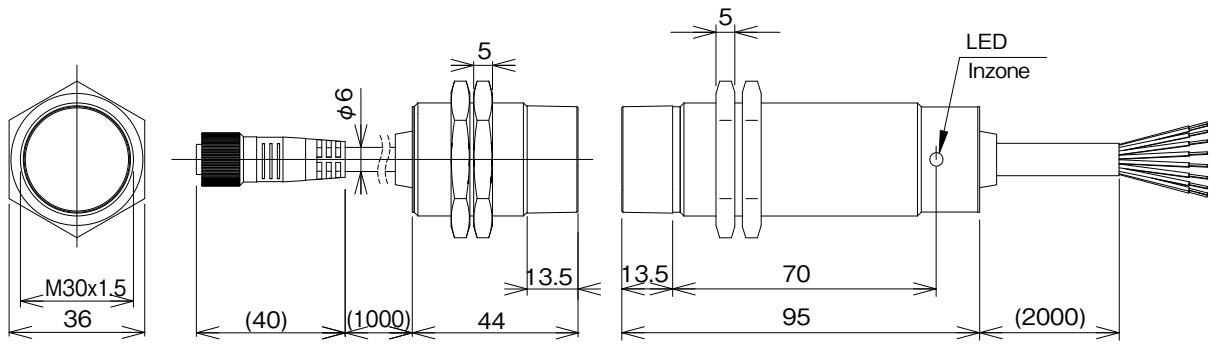
The straight connector can be used to both type of Remote Terminal.



for max. 16 sensors Terminal unit type / Size : M30

Operating distance 2...8mm

Transmitting head Output sensor



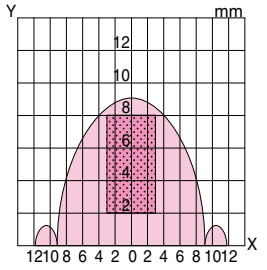
A057

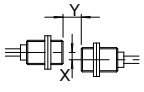
Wiring C026/P.119

Transmitter / Transmitting head		Output sensor		
Type Code (conect to 12 V Remote Terminal)	RSH16T-030-PU-CP1.0	Type Code NPN	RSH16E-030N-PU-02	
		PNP	RSH16E-030P-PU-02	
Drive voltage	22V ± 1.5V DC	Operational voltage	24V DC ± 10% (incl. ripple)	
Drive current	120mA	Current consumption	≤ 500mA	
Remote terminal	RS16TA-211_-S04、RS16T-211_-S04	No. of output signal	16 +1 (InZone)	
Operating distance	2...8mm	Load current	max.50mA per output	
Center offset	± 3mm	Frequency of operation	20Hz	
Drive current	120mA	LED	InZone	
Operating temperature	0...+50℃	Operating temperature	0...+50℃	
Protection class	IP67	Protection class	IP67	
Cable	M12 connector Cable（1m、3m、5m）	Cable	PUR/ Ø8.5、2x0.5mm^2+17x0.18mm^2)	
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass	
Active face	Nylon 12	Active face	Nylon 12	
Weight	Body 120 g + Cable 50 g x 1 m	Weight	Body 160 g + Cable 110 g x 2 m	
Anti-weld slag Type Code (connect to Remote Terminal)	RSH16T-TF030-PU-CP1.0	Anti-weld slag Type Code NPN	RSH16E-TF030N-PU-02	
		PNP	RSH16E-TF030P-PU-02	
Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

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

RSH16T-030-PU-CP_ _ / RSH16E-030 □ -PU-_ _





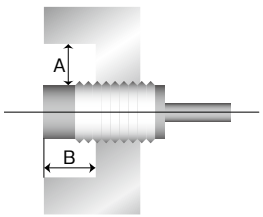
X : Center offset (mm)
Y : Operating distance (mm)

Rated value

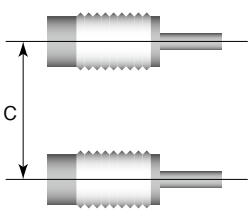
Installation notes

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

Surrounding metal



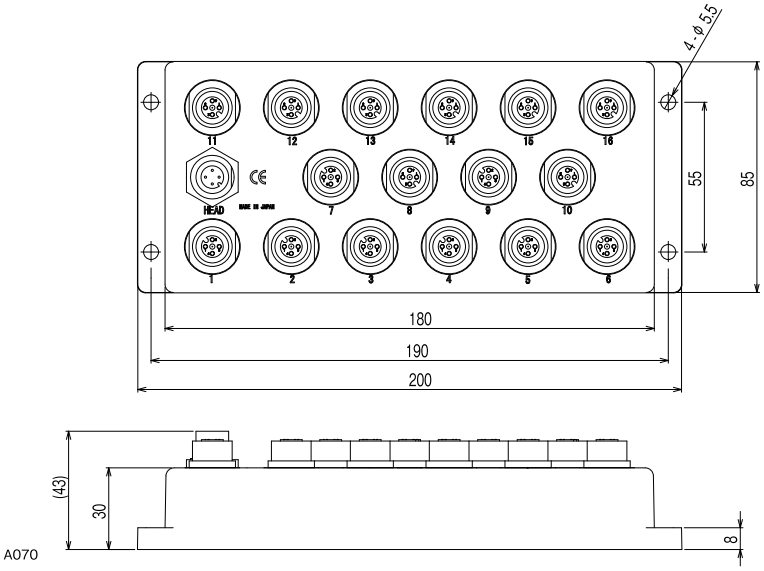
Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RSH16T-030-PU-CP_ _	30	30	160
RSH16E-030 □ -PU-_ _			

Signal type
Switch
Sensor type
DC 3-wire
Remote Sensor
DC 3-wire detector type
DC 3-wire type Terminal unit
DC 2-wire detector type
DC 2-wire type Terminal unit
Exclusive detector type
Thermocouple type
Resistance thermometer type
Load cell type
Analog sensor type
Exclusive sensor
Terminal box other unit
Wiring
Products for maintenance
Special spec.
Alphanumeric product list

for max. 16 sensors Terminal unit type / Remote Terminal



This dimensional drawing shows connector type 1.

Wiring	C026/P.119

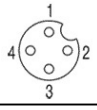
		Transmitter ／ Remote terminal
Type Code	Connector type 1	RS16TB-211P-S04
	Connector type 2	
Applicable sensor		DC 3-wire PNP (M12 connecter 4-pin : 1:+, 3:-, 4:SI)
Drive voltage		24V ± 1.5V DC
Drive current		300mA、550mA (depending on the operating distance and the center offset : See Typical Transmitting Diagram on next page)
Operating temperature		0...+50℃
Protection class		IP67
Connection	Sensor	Connector M12 (Female) x 16
	Transmitting head	Connector M12 (Male) x 1
Material	Housing	PPS
Weight		1000 g
Included		Ferrite core clamp
Remarks		The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Applicable sensor

Supply voltage	24V DC
Total current consumption*	≤ 550mA
Residual voltage	≤ 6V
Load current	---

*Total current consumption of all connected sensor.

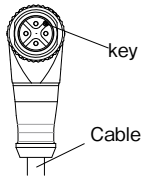
Please use a sensor which works definitely in the condition described on left.

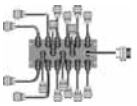
Pin assigned of connector for sensors		1 : + 2 : 3 : - 4 : SI

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.

1 :Applicable to RS16TB-211_



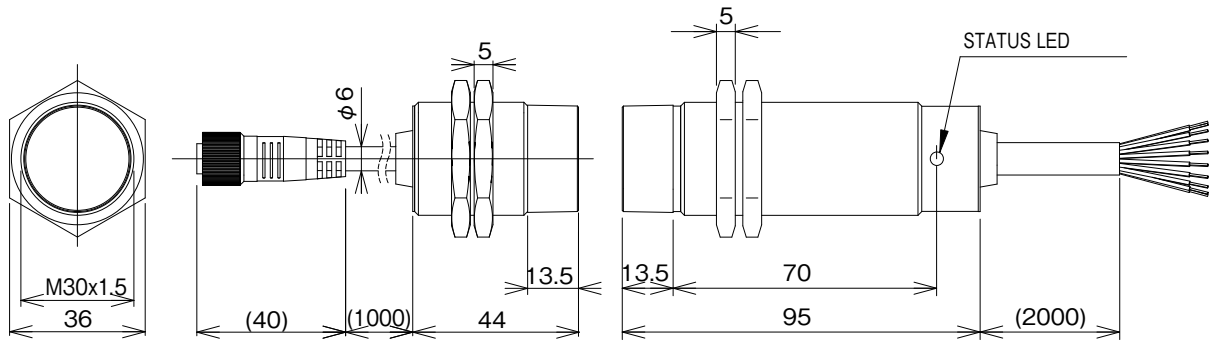


The direction of the cable is shown in the left figure.

for max. 16 sensors Terminal unit type / Size : M30

Operating distance 0...5mm

Transmitting head Output sensor



A057

Wiring	C026/P.119

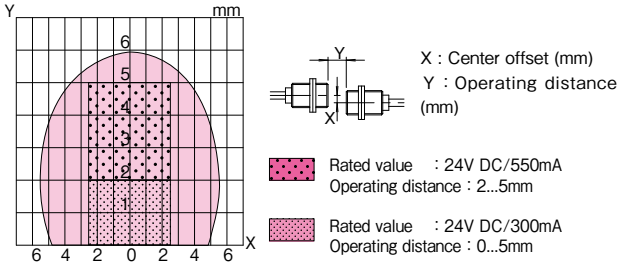
Transmitter ／ Transmitting head			
Type Code (conect to 24 V Remote Terminal)	RSH16TB-030-PU-CP1.0		
Remote terminal	RS16TB-211P-S04		
Operating distance	0...5mm	2...5mm	
Center offset	± 2.5mm	± 2.5mm	
Drive current *	≤ 300mA	≤ 550mA	
Operating temperature	0...+50℃		
Protection class	IP67		
Cable	M12 connector Cable（1m、3m、5m）		
Material Housing	Nickel plated brass		
Material Active face	Nylon 12		
Weight	Body 120 g + Cable 50 g		
Remarks			

* The total amount of current supplied to sensors from Remote Terminal.

Output sensor	
Type Code (PNP)	RSH16EB-030P-PU-02
Operational voltage	24V DC ± 10% (incl. ripple)
Current consumption	≤ 1A
No. of output signal	16 +1 (InZone)
Load current	max.50mA per output
Frequency of operation	20Hz
Start-up time	≤ 2 sec.
LED	InZone, OutZone, Over heat, Short
Operating temperature	0...+50℃
Protection class	IP67
Cable	PUR/ Ø8.6、2x0.5mm^2+17x0.18mm^2
Material Housing	Nickel plated brass
Material Active face	Nylon 12
Weight	Body 160 g + Cable 110 g x 2 m
Remarks	

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

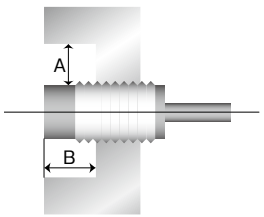
RSH16TB-030-PU-CP_ _ / RSH16EB-030P-PU-_ _



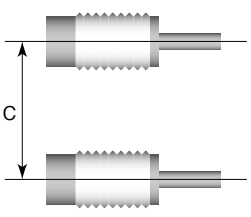
Installation notes

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

Surrounding metal



Parallel installation



Type Code	A(mm)	B(mm)	C(mm)
RSH16TB-030-PU-CP_ _	40	32	160
RSH16EB-030P-PU-_ _			