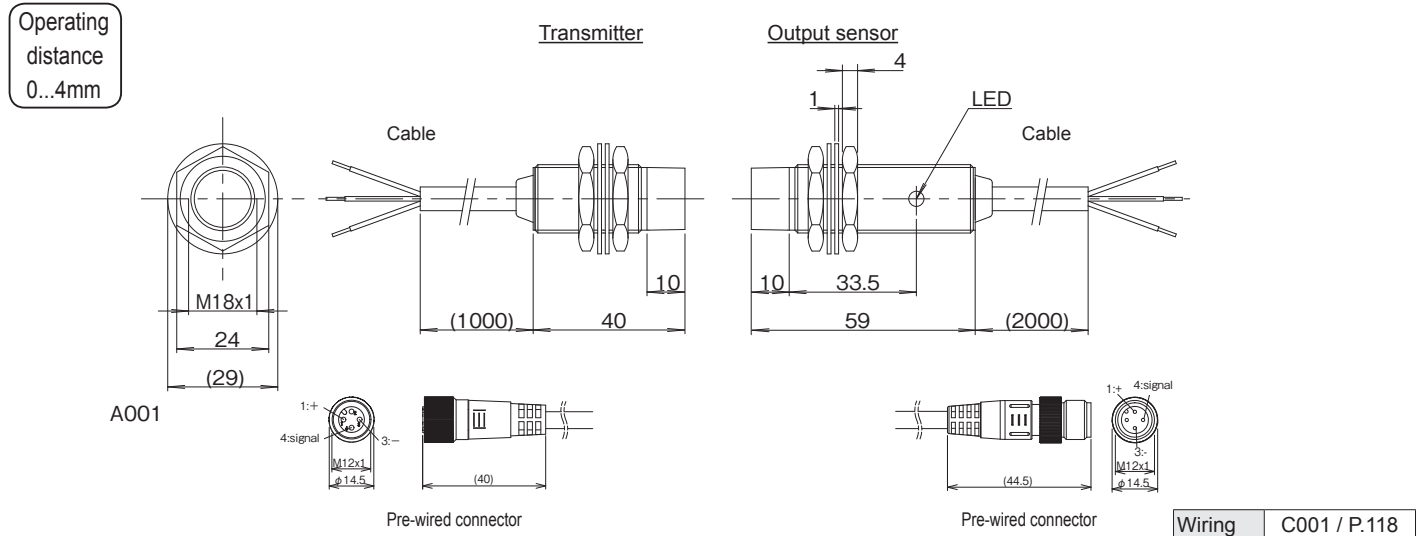


for 1 sensor / Size : M18



		Transmitter	
		Cable	Pre-wired connector
Type	NPN	<b>RPT-1804N-PU-01</b>	<b>RPT-1804N-PU-CP0.3</b>
Code	PNP	<b>RPT-1804P-PU-01</b>	<b>RPT-1804P-PU-CP0.3</b>
Drive voltage	12V ± 1.5V DC		
Drive current	≤ 30mA		
No. of Input signal	1 signal		
Operating distance	0...4mm	0...3mm	0...2.5mm
Center offset	±3mm	±2.5mm	±2mm
Drive current	≤ 5mA	≤ 20mA	≤ 30mA
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 45g + Cable 35g x 1m / +Connector cable 30cm 40g		
Anti-weld slag type		Cable	Pre-wired connector
Type Code	NPN	<b>RPT-TF1804N-PU-01</b>	<b>RPT-TF1804N-PU-CP0.3</b>
	PNP	<b>RPT-TF1804P-PU-01</b>	<b>RPT-TF1804P-PU-CP0.3</b>
Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin		

		Output sensor	
		Cable	Pre-wired connector
Type	NPN	<b>RPE-1804N-PU-02</b>	<b>RPE-1804N-PU-CP0.3</b>
Code	PNP	<b>RPE-1804P-PU-02</b>	<b>RPE-1804P-PU-CP0.3</b>
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≤ 150mA		
No. of Output signal	1 signal		
Load current	≤ 50mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 60g + Cable 35g x 2m / +Connector cable 30cm 30g		
Anti-weld slag type		Cable	Pre-wired connector
Type Code	NPN	<b>RPE-TF1804N-PU-02</b>	<b>RPE-TF1804N-PU-CP0.3</b>
	PNP	<b>RPE-TF1804P-PU-02</b>	<b>RPE-TF1804P-PU-CP0.3</b>
Material	Housing:Fluorinated resin coated/Activeface:Fluorinated resin		

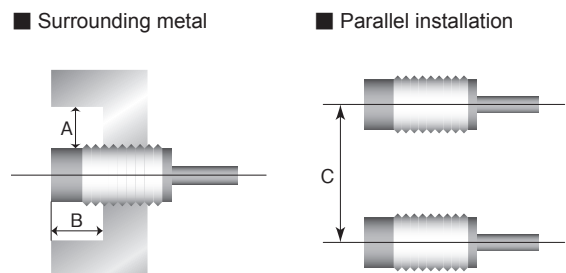
### Applicable sensor

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

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

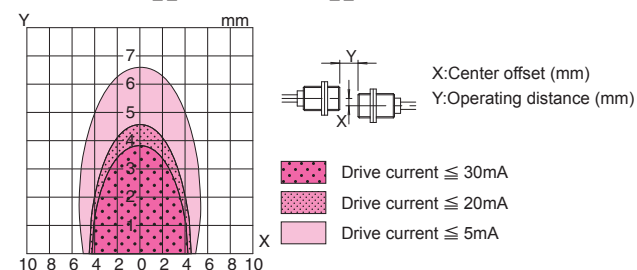
### Installation notes

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

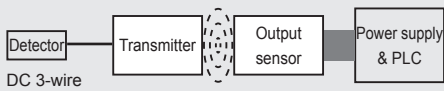


### Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

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



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



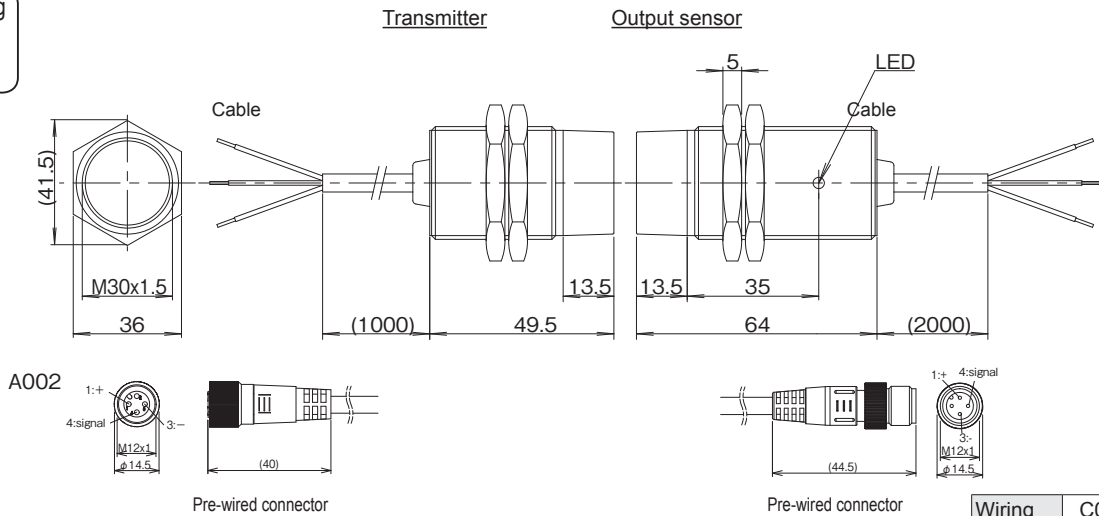
RPT-18  
RPE-18

RPT-30  
RPE-30



for max.8 sensors / Size : M30

Operating distance  
1...8mm



Wiring C001 / P.118

Transmitter			
		Cable	Pre-wired connector
Type	NPN	<b>RPT-3008N-PU-01</b>	<b>RPT-3008N-PU-CP0.3</b>
Code	PNP	<b>RPT-3008P-PU-01</b>	<b>RPT-3008P-PU-CP0.3</b>
Drive voltage	12V ± 1.5V DC		
Drive current	≤ 30mA		
No. of Input signal	1 signal		
Operating distance	1...8mm	1...6mm	1...4.5mm
Center offset	±5mm	±4mm	±3mm
Drive current	≤ 5mA	≤ 20mA	≤ 30mA
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 110g + Cable 35g x 1m / +Connector cable 30cm 40g		
Anti-weld slag type		Cable	Pre-wired connector
Type	Code	NPN	<b>RPT-TF3008N-PU-01</b>
		PNP	<b>RPT-TF3008P-PU-01</b>
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Output sensor			
		Cable	Pre-wired connector
Type	NPN	<b>RPE-3008N-PU-02</b>	<b>RPE-3008N-PU-CP0.3</b>
Code	PNP	<b>RPE-3008P-PU-02</b>	<b>RPE-3008P-PU-CP0.3</b>
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≤ 150mA		
No. of Output signal	1 signal		
Load current	≤ 50mA		
Frequency of operation	25Hz		
LED	Signal output indication		
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 5 , 3x0.34mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 130g + Cable 35g x 2m / +Connector cable 30cm 30g		
Anti-weld slag type		Cable	Pre-wired connector
Type	Code	NPN	<b>RPE-TF3008N-PU-02</b>
		PNP	<b>RPE-TF3008P-PU-02</b>
	Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Signal type  
Switch signal

Sensor type  
DC 3-wire

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  
type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

Applicable sensor

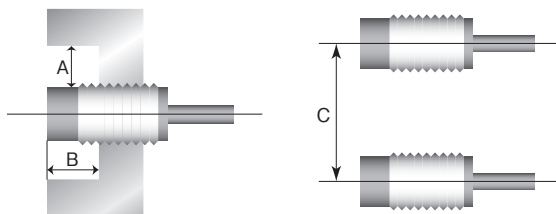
Supply voltage	12V DC
Current consumption	≤ 30mA
Residual voltage	≤ 3.5V
Leakage current	---

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

Installation notes

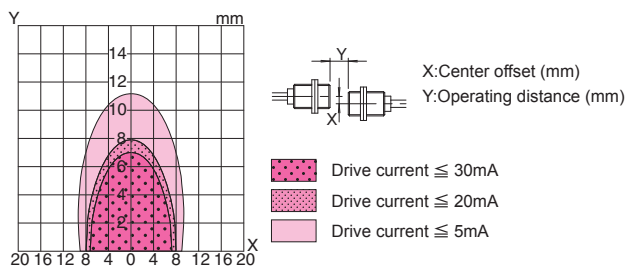
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

- Surrounding metal
- Parallel installation



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

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



Exclusive  
sensor

Terminal box  
Other unit

Wiring

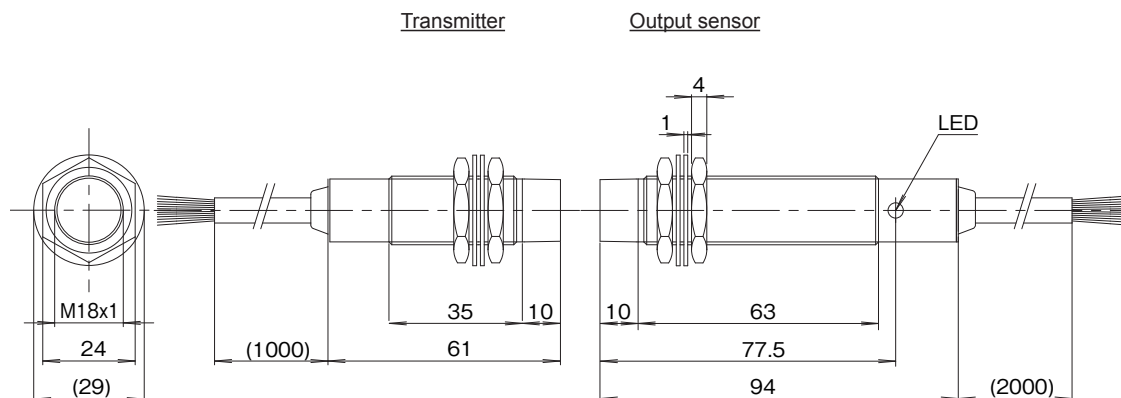
Discontinued  
plans

Index

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



A003

Wiring C002 / P.118

Type		Transmitter	
Type	NPN	<b>RPTA-1803-PU-01</b>	
Code	PNP		
Drive voltage	12V ± 1.5V DC		
Drive current	≤ 30mA		
No. of Input signals	4 signals		
Operating distance	0.5...3mm	0.5...3mm	
Center offset	±2.5mm	±2mm	
Drive current	≤ 20mA	≤ 30mA	
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 6.3 , 7x0.3mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 60g + Cable 60g x 1m		
Anti-weld slag	NPN	<b>RPTA-TF1803-PU-01</b>	
Type	Code	PNP	
		Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

Type		Output sensor	
Type	NPN	<b>RPEA-1803N-PU-02</b>	
Code	PNP	<b>RPEA-1803P-PU-02</b>	
Supply voltage	24V DC ±5% (including ripple)		
Current consumption	≤ 170mA		
No. of Output signals	4 signals + 1 signal ( Inzone )		
Load current	max.50mA per output		
Frequency of operation	30Hz		
LED	Inzone		
Operating temperature	0...+50°C		
Protection class	IP67		
Cable	PUR / φ 6.3 , 7x0.3mm <sup>2</sup>		
Material	Housing	Nickel plated brass	
	Active face	Nylon 12	
Weight	Body 90g + Cable 60g x 2m		
Anti-weld slag	NPN	<b>RPEA-TF1803N-PU-02</b>	
Type	Code	PNP	<b>RPEA-TF1803P-PU-02</b>
		Material	Housing:Fluorinated resin coated/Active face:Fluorinated resin

### Applicable sensor

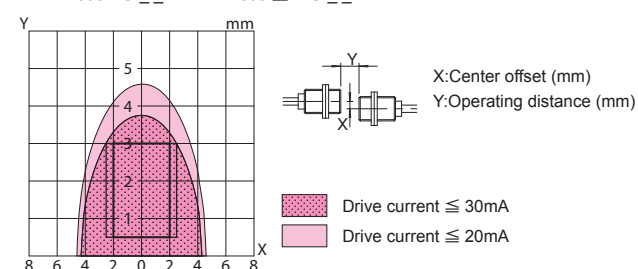
Supply voltage	12V DC
Total current consumption*	≤ 30mA
Residual voltage	≤ 3.5V
Leakage current	---

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

\*Total current consumption of all connected sensor.

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

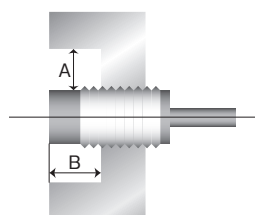
RPTA-1803-PU-\_\_ / RPEA-1803 □ -PU-\_\_



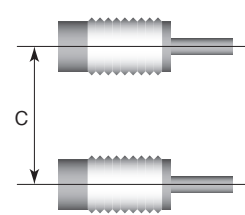
### Installation notes

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.

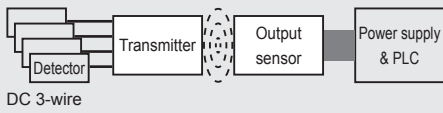
#### Surrounding metal



#### Parallel installation



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



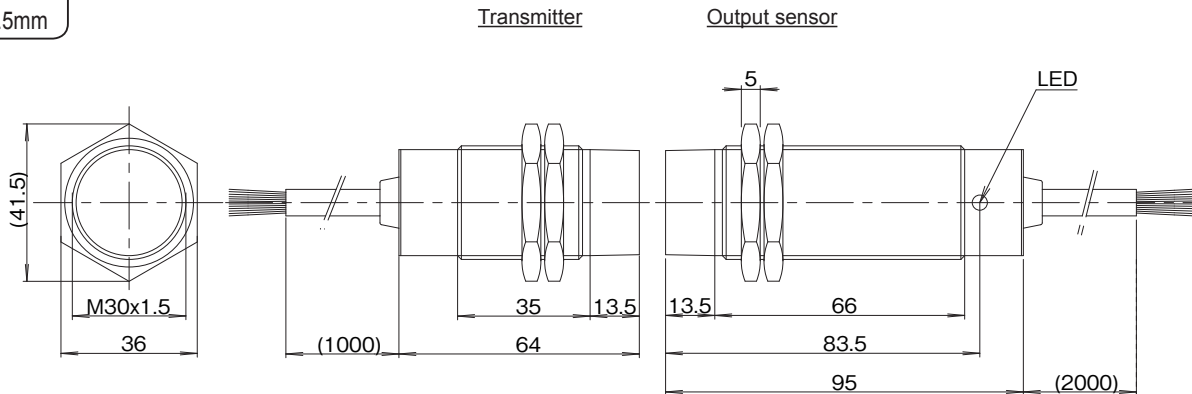
RPTA-18  
RPEA-18

RPTA-30  
RPEA-30

**4**  
signals

for max.4 sensors / Size : M30

Operating distance  
1...5mm

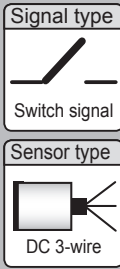


A004

Wiring C002 / P.118

Type		NPN		PNP		RPTA-3005-PU-01	
Code		NPN		PNP		RPTA-3005-PU-01	
Drive voltage		12V ± 1.5V DC					
Drive current		≤ 40mA					
No. of Input signals		4 signals					
Operating distance		1...5mm		1...5mm			
Center offset		±6mm		±3mm			
Drive current		≤ 30mA		≤ 40mA			
Operating temperature		0...+50°C					
Protection class		IP67					
Cable		PUR / φ 6.3 , 7x0.3mm <sup>2</sup>					
Material		Housing		Nickel plated brass			
		Active face		Nylon 12			
Weight		Body 130g + Cable 60g x 1m					
Anti-weld slag		NPN		PNP		RPTA-TF3005-PU-01	
Type Code		NPN		PNP		RPTA-TF3005-PU-01	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin					

Type		NPN		PNP		RPEA-3005N-PU-02	
Code		NPN		PNP		RPEA-3005P-PU-02	
Supply voltage		24V DC ±5% (including ripple)					
Current consumption		≤ 150mA					
No. of Output signals		4 signals + 1 signal ( Inzone )					
Load current		max.50mA per output					
Frequency of operation		30Hz					
LED		Inzone					
Operating temperature		0...+50°C					
Protection class		IP67					
Cable		PUR / φ 6.3 , 7x0.3mm <sup>2</sup>					
Material		Housing		Nickel plated brass			
		Active face		Nylon 12			
Weight		Body 160g + Cable 60g x 2m					
Anti-weld slag		NPN		PNP		RPEA-TF3005N-PU-02	
Type Code		NPN		PNP		RPEA-TF3005P-PU-02	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin					



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  
type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

### Applicable sensor

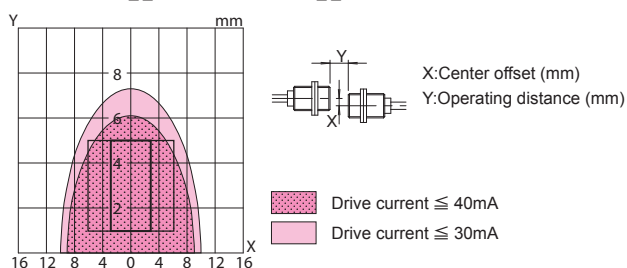
Supply voltage	12V DC
Total current consumption*	≤ 40mA
Residual voltage	≤ 3.5V
Leakage current	---

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

\*Total current consumption of all connected sensor.

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

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

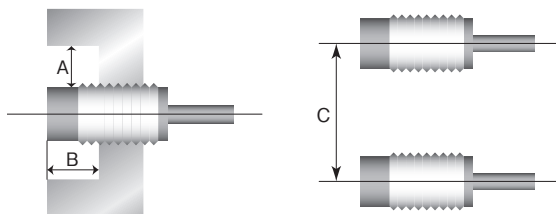


### Installation notes

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

■ Surrounding metal

■ Parallel installation



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

Exclusive  
sensor

Terminal box  
Other unit

Wiring

Discontinued  
plans

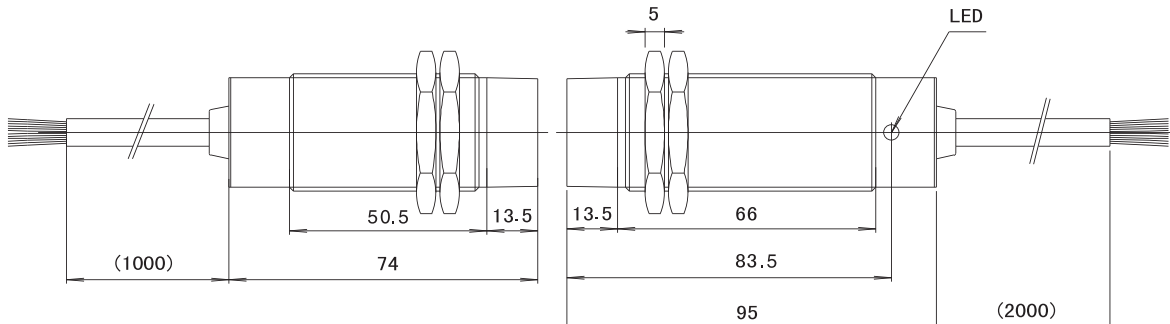
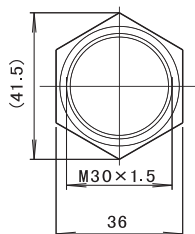
Index

for max.8 sensors / Size : M30

Operating distance  
2...5mm

Transmitter

Output sensor



A005

Wiring C004 / P.119

Transmitter	
Type	NPN
Code	PNP
<b>RGPT-3005-V1215-PU-01</b>	
Drive voltage	12V ± 1.5V DC
Drive current	≤ 150mA
No. of Input signals	8 signals
Operating distance	2...5mm
Center offset	±3mm
Drive current	≤ 150mA
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 150g + Cable 75 g × 1 m
Remark	

Output sensor	
Type	NPN
Code	PNP
<b>RGPE-3005-V1215N-PU-02</b>	
Supply voltage	24V DC ±10% (including ripple)
Current consumption	≤ 400mA
No. of Output signals	8 signals + 1 signal ( Inzone )
Load current	max.50mA per output
Frequency of operation	60Hz
LED	Inzone
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>
Material Housing	Nickel plated brass
Active face	Nylon 12
Weight	Body 180g + Cable 75 g × 2 m
Remark	

### Applicable sensor

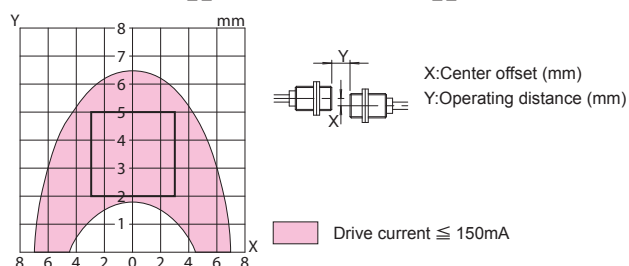
Supply voltage	12V DC
Total current consumption*	≤ 150mA
Residual voltage	≤ 3.5V
Leakage current	---

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

\*Total current consumption of all connected sensor.

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

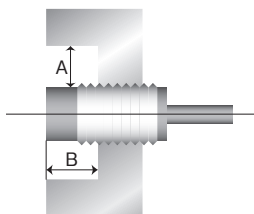
RGPT-3005-V1215-PU-\_\_ / RGPE-3005 □ -V1215-PU-\_\_



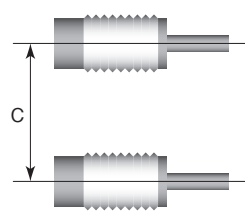
### Installation notes

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.

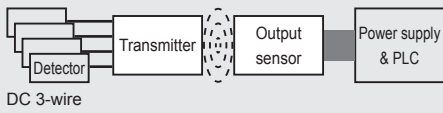
#### Surrounding metal



#### Parallel installation



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

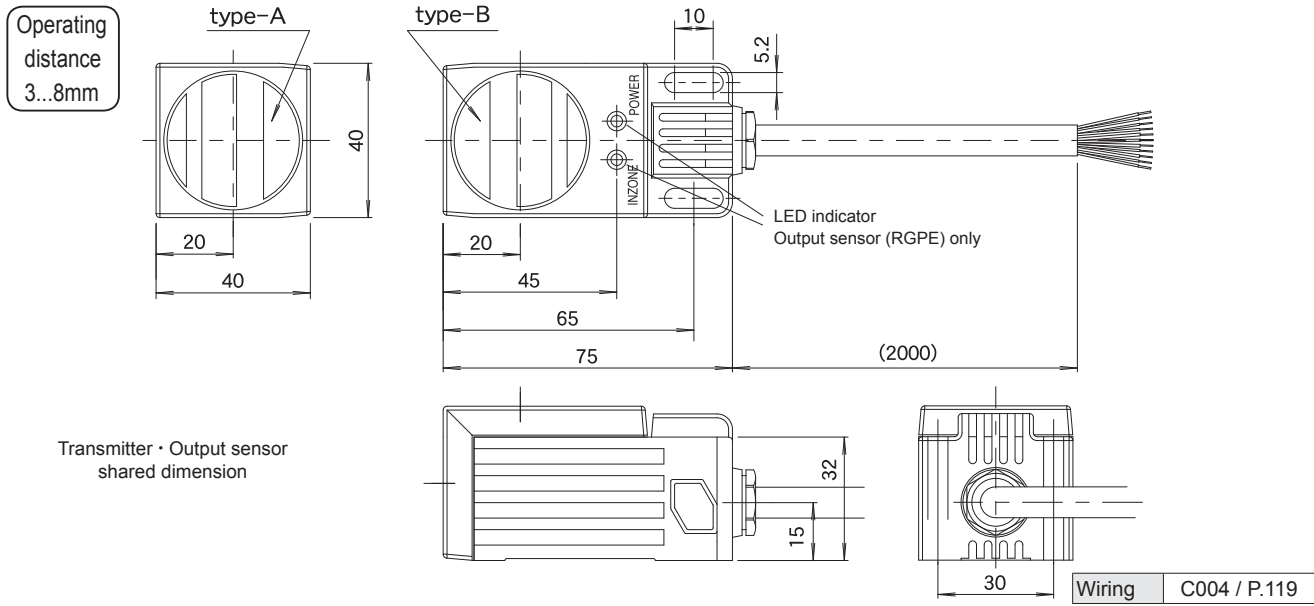


RGPT-30  
RGPE-30

RGPT-40  
RGPE-40

8  
signals

for max.8 sensors / Size : 40 x 80



Signal type  
Switch signal

Sensor type  
DC 3-wire

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  
type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

Transmitter	
Type	NPN
Code	PNP
<b>RGPT-4008-V1220A/B*-PU-01</b>	
Drive voltage	12V ± 1.5V DC
Drive current	≤ 200mA
No. of Input signals	8 signals
Operating distance	3...8mm
Center offset	±3mm
Drive current	≤ 200mA
Operating temperature 0...+50°C	
Protection class IP67	
Cable PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>	
Material Housing	Aluminum (metal part)
Active face	ABS+PBT (resin part)
Weight	Body 220g + Cable 75 g × 1 m
Remark	*Selectable active face A (front) or B (top).

Output sensor	
Type	NPN
Code	PNP
<b>RGPE-4008-V1220NA/B*-PU-02</b>	
Supply voltage	24V DC ±10% (including ripple)
Current consumption	≤ 500mA
No. of Output signals	8 signals + 1 signal ( Inzone )
Load current	max.50mA per output
Frequency of operation	60Hz
LED	InZone (Yellow) / Power (Green)
Operating temperature 0...+50°C	
Protection class IP67	
Cable PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>	
Material Housing	Aluminum (metal part)
Active face	ABS+PBT (resin part)
Weight	Body 220g + Cable 75 g × 2 m
Remark	*Selectable active face A (front) or B (top).

**Applicable sensor**

Supply voltage	12V DC	Please sure to use applicable detector switch according to the specification on left.
Total current consumption*	≤ 200mA	
Residual voltage	≤ 3.5V	
Leakage current	---	

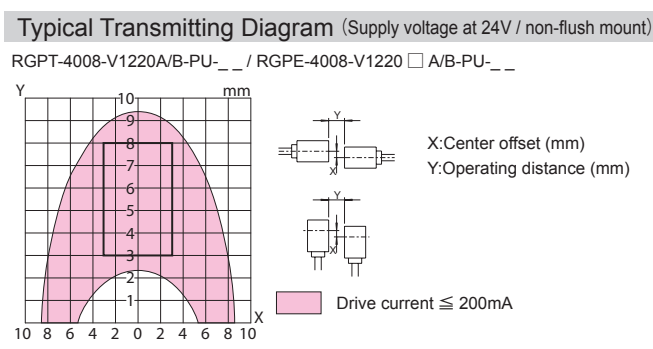
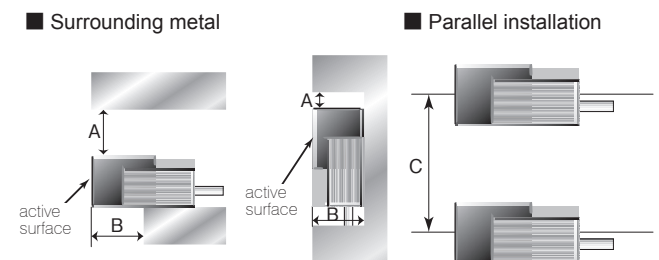
\*Total current consumption of all connected sensor.

**Combination between RGPT-4008 and RGPE-4008**

Refer to the followings for the combination of active face A and B

**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)
RGPT-4008-V1220A/B-PU-__	40	40	300
RGPE-4008-V1220 □ A/B-PU-__			

Exclusive  
sensor

Terminal box  
Other unit

Wiring

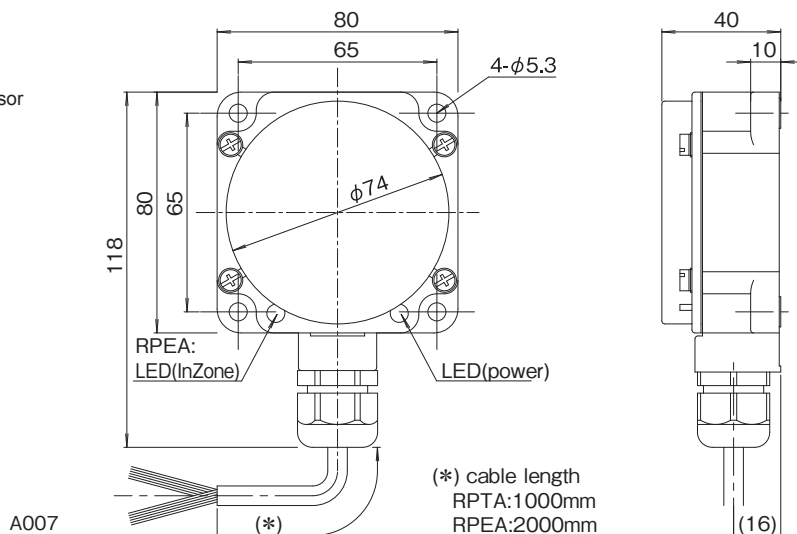
Discontinued  
plans

Index

for max.8 sensors / Size : 80 x 80

Operating distance  
2...15mm

Transmitter · Output sensor  
shared dimension



Wiring C003 / P.118

Transmitter	
Type	NPN
Code	PNP
<b>RPTA-8015-PU-01</b>	
Drive voltage	12V ± 1.5V DC
Drive current	≤ 100mA
No. of Input signals	8 signals
Operating distance	2...22mm
Center offset	±12mm
Drive current	≤ 50mA
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.9 , 12x0.18mm <sup>2</sup>
Material Housing	Nylon
Material Active face	Nylon
Weight	Body 440g + Cable 80 g × 1 m
Remark	

Output sensor	
Type	NPN
Code	PNP
<b>RPEA-8015N-PU-02</b>	
Supply voltage	24V DC ±5% (including ripple)
Current consumption	≤ 300mA
No. of Output signals	8 signals + 1 signal ( Inzone )
Load current	max.50mA per output
Frequency of operation	30Hz
LED	InZone (Yellow) / Power (Green)
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.9 , 12x0.18mm <sup>2</sup>
Material Housing	Nylon
Material Active face	Nylon
Weight	Body 440g + Cable 80 g × 2 m
Remark	

### Applicable sensor

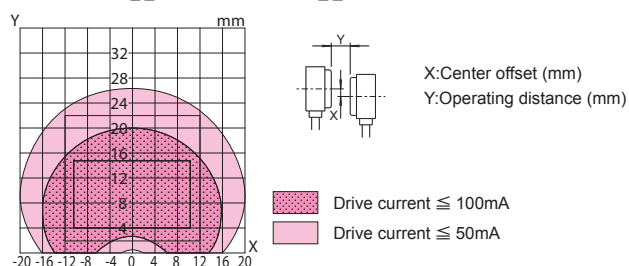
Supply voltage	12V DC
Total current consumption*	≤ 100mA
Residual voltage	≤ 3.5V
Leakage current	---

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

\*Total current consumption of all connected sensor.

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

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

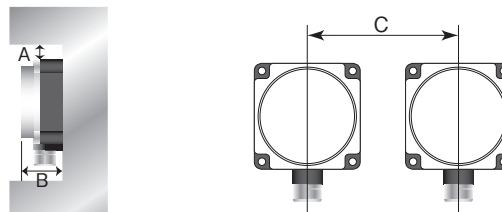


### Installation notes

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.

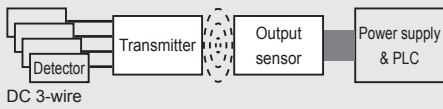
■ Surrounding metal

■ Parallel installation



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





RPTA-80  
RPEA-80

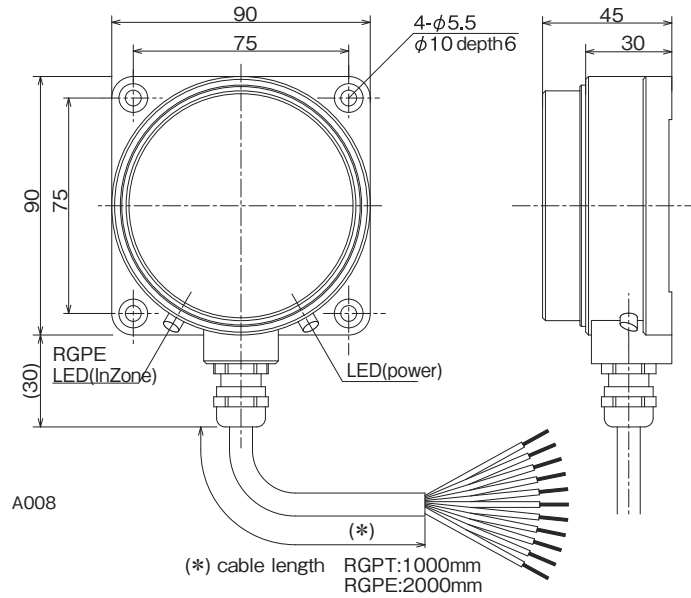
RGPT-90  
RGPE-90

8  
signals

for max.8 sensors / Size : 90 x 90

Operating distance  
4...12mm

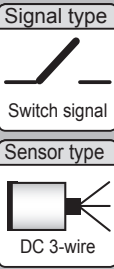
Transmitter · Output sensor  
shared dimension



Wiring C004 / P.119

Transmitter	
Type	NPN
Code	PNP
<b>RGPT-9012-V2430-PU-01</b>	
Drive voltage	24V ± 1.5V DC
Drive current	≤ 300mA
No. of Input signals	8 signals
Operating distance	4...12mm
Center offset	±7mm
Drive current	≤ 300mA
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>
Material	Housing: Aluminum + alumite processing (metal part) Active face: ABS+PBT (resin part)
Weight	Body 650g + Cable 80 g × 1 m
Remark	The AC 2-wire sensor can be connected by the interchange conversion amplifier unit (P.114).

Output sensor	
Type	NPN
Code	PNP
<b>RGPE-9012-V2430N-PU-02</b>	
<b>RGPE-9012-V2430P-PU-02</b>	
Supply voltage	24V DC ±10% (including ripple)
Current consumption	≤ 1A
No. of Output signals	8 signals + 1 signal ( Inzone )
Load current	max.50mA per output
Frequency of operation	60Hz
LED	InZone (Yellow) / Power (Green)
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / φ 7.7 , 2x0.5mm <sup>2</sup> + 9x0.18mm <sup>2</sup>
Material	Housing: Aluminum + alumite processing (metal part) Active face: ABS+PBT (resin part)
Weight	Body 650g + Cable 80 g × 2 m
Remark	



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  
type

Resistance  
thermometer type

Load cell type

Analog sensor  
type

### Applicable sensor

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

\*Total current consumption of all connected sensor.

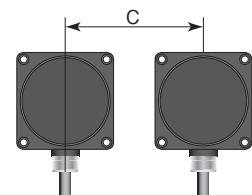
Please sure to use applicable detector switch according to the specification on left.

### Installation notes

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

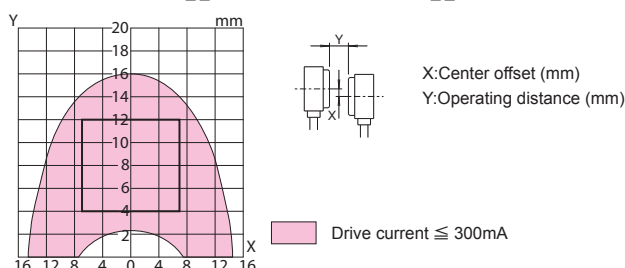
■ Surrounding metal

■ Parallel installation



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

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



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

Exclusive  
sensor

Terminal box  
Other unit

Wiring

Discontinued  
plans

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