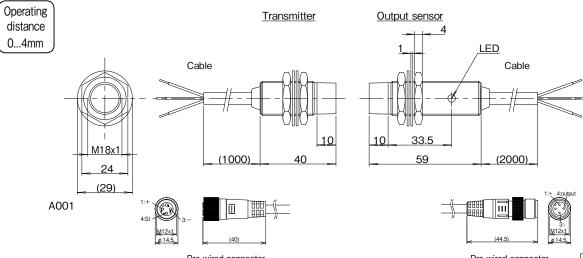
for 1 sensor / Size: M18



Pre-wired connector

Pre-wired connector Wiring C001/P.114

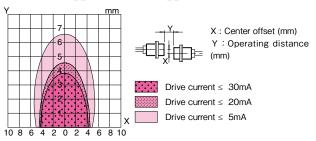
										VVII II 18	0001/1.114
Transmitter									Output sensor		
C		Cable		Pre-wired connector					Cable	Pre-wired	connector
Type NPN		RPT-1804N-PU	J-01	RPT-18	804N-PU-CP0.3	Туре	NPN		RPE-1804N-PU-02	RPE-180	4N-PU-CP0.3
Code PNP		RPT-1804P-PU	J-01	RPT-18	804P-PU-CP0.3	Code	PNP		RPE-1804P-PU-02	RPE-180	4P-PU-CP0.3
Drive voltage)	12V ± 1.5V DC				Operat	onal vo	ltage	24V DC ± 5% (incl. ripp	ole)	
Drive current		max.30mA							≤ 150mA		
No. of input :	signal	1				No. of	output	signal	1		
Operating dis	stance	04mm	03mm		02.5mm	Load c	urrent		max.50mA	-	
Center offset		± 3mm	± 2.5m	m	± 2mm	Frequen	cy of op	eration	25Hz		
Drive current	t	≤ 5mA	≤ 20mA		≤ 30mA	LED			Signal output indication		
Operating tem	perature	0+50°C				Operating temperature 0+50°C					
Protection cl		IP67				Protec	ection class IP67				
Cable		PUR / Ø5 , 3x	0.34mm ²			Cable			PUR / Ø5 , 3x0.34mm ²		
Material Hous	sing	Nickel plated bra	ass			Material	Housi	ng	P67 UR / Ø5 , 3x0.34mm² ickel plated brass		
Activ	e face	Nylon 12				Active	face	Nylon 12			
Weight		Body 45g + Cable3	35g × 1m /	+Connector	r cable 30cm 40g	Weight	Weight Body 60g + Cable35g × 2m /+Connector cable 30cm 30g			ble 30cm 30g	
Anti-weld slag type		Cable		Dro-wire	ed connector	Anti-we	ıld clan	type	Cable	Dro-wired	connector
Type Code	NPN	RPT-TF1804N-	.P.I Ι_Ω1		1804N-PU-CP0.3	Type C		NPN	RPE-TF1804N-PU-02	_	804N-PU-CP0.3
Type code	PNP	RPT-TF1804P-			1804P-PU-CP0.3	Type C	ouc	PNP	RPE-TF1804P-PU-02	_	804P-PU-CP0.3
	Material				ace:Fluorinated resin			Material	Housing:Fluorinated resin coate	_	
IVIDIOIDI		i lodoli ig.i ldolli lated	Toom Foodic	a, notive i	door idomidica resiri			matorial	i iodoli ig.i idoli idica icoli i codic	A THOUSE TOOL	in admirated resim

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.

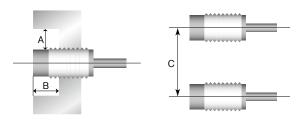
Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount) RPT-1804 - PU-_ / RPE-1804 - PU-_ _



Installation notes

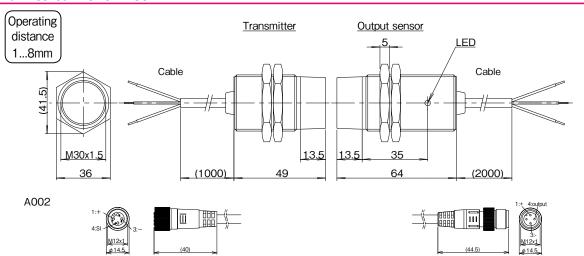
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Transmitters or Output sensors, keep the minimum distances as described below.

Surrounding metal Parallel installation



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

for 1 sensor / Size: M30



Pre-wired connector

Pre-wired connector

Output sensor

Wiring C001/P.114

			Transmitter				
			Cable		Pre-wired connector		
Туре	NPN		RPT-3008N-P	U-01	RPT-30	008N-PU-CP0.3	
Code	PNP		RPT-3008P-P	U-01	RPT-3008P-PU-CP0.3		
D:	11		40)/ 45)/5				
Drive vo	oltage		$12V \pm 1.5V D$	C			
Drive cu	ırrent		max.30mA				
No. of ir	nput si	gnal	1				
Operatir	ng dista	ance	18mm	16mn	n	14.5mm	
Center of	offset		\pm 5mm	± 4mm		± 3mm	
Drive cu	ırrent		≤ 5mA	≤ 20mA		≤ 30mA	
Operation	r tompo	roturo					
Operating							
Protecti	on clas	SS	<u>IP67</u>				
Cable			PUR / Ø5 , 3x0.34mm ²				
Material	Housin	ıg	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-I	⊃U-01	RPT-TF	3008P-PU-CP0.3	
Material		Housing:Fluorinated resin coated/Active face:Fluorinated resin					

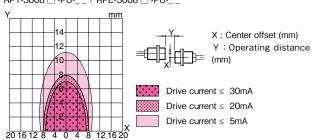
		Cable	Pre-wired connector		
Type NPN	I	RPE-3008N-PU-02	RPE-3008N-PU-CP0.3		
Code PNP)	RPE-3008P-PU-02	RPE-3008P-PU-CP0.3		
Operational	ltogo	04\/ DC ± E9/ (incl. ri	nala)		
		$24V DC \pm 5\%$ (incl. ri	ppie)		
Current consur	nption	≤ 150mA			
No. of output	signal	1			
Load current		max.50mA			
Frequency of op	eration	25Hz			
LED		Signal output indication			
Operating temperature	erature	0+50°C			
Protection cla	SS	IP67			
Cable		PUR / Ø5 , 3x0.34mm ²			
Material Housin	ng	Nickel plated brass			
Active	face	Nylon 12			
Weight		Body 130g + Cable35g × 2m/+Connector cable 30cm 30g			
Anti wold alon	t 100	Coblo	Dro wired connector		
Anti-weld slag			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		

Applicable sensor

Supply voltage	12V DC
Current consumption	$\leq 30mA$
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-_



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.

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Parallel installation

Surrounding metal

A	
	С
← B →	

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



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

Thermocouple

Resistance hermometer tyne

Load cell type

Analog sensor type

Exclusive sensor

Terminal box other unit

Wiring

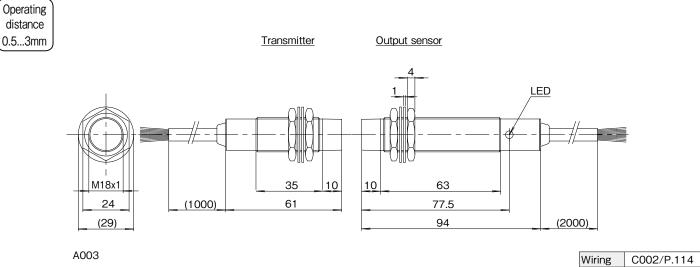
Products for maintenance

Special spe

Alphanumerion product list



for max. 4 sensors / Size: M18



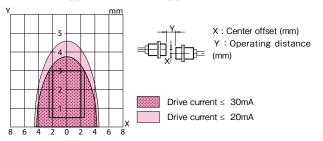
	Transm	nitter	Output sensor			
Type NPN				NPN	RPEA-1803N-PU-02	
Code PNP				PNP	RPEA-1803P-PU-02	
Drive voltage	12V ± 1.5V DO		Operation	nal voltag	e 24V DC ± 5% (incl. ripple)	
Drive current	max.30mA		-		n ≤ 170mA	
No. of input signal 4					4 +1(InZone)	
Operating distance	0.53mm	0.53mm	Load cur	rent	max.50mA per output	
Center offset	± 2.5mm	± 2mm	Frequency	of operation	n 30Hz	
Drive current	≤ 20mA ≤ 30mA		LED		InZone	
Operating temperature	0+50°C			temperatu	e 0+50°C	
Protection class	IP67		Protectio	Protection class IP67		
Cable	PUR / Ø6.3, 7	7x0.3mm ²	Cable PUR / Ø6.3 , 7x0.3mm ²		PUR / Ø6.3 , 7x0.3mm ²	
Material Housing	Nickel plated bra	ass	Material Housing Nick		Nickel plated brass	
Active face	Active face Nylon 12		Active face		Nylon 12	
Weight Body 60g + Cable60g × 1m		Weight		Body 90g + Cable60g × 2m		
Anti-weld slag NPN Type Code PNP	RPTA-TF1803-	PU-01	Anti-weld		RPEA-TF1803N-PU-02 RPEA-TF1803P-PU-02	
Material	Housing:Fluorinated	resin coated/Active face:Fluorinated resin		Mate	ial Housing:Fluorinated resin coated/Active face:Fluorinated resin	

Applicable sensor

Supply voltage	12V DC
Total current consumption*	$\leq 30 mA$
Residual voltage	≤ 3.5V
Load current	

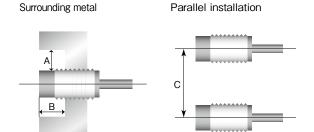
Please use a sensor which works definitely in the condition described on left.

Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount) RPTA-1803-PU-_ _ / RPEA-1803 🗆 -PU-_ _



Installation notes

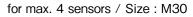
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Transmitters or Output sensors, keep the minimum distances as described below.



Type Code	A(mm)	B(mm)	C(mm)
RPTA-1803-PU	18	18	110
RPEA-1803 □ -PU	10	10	110

^{*}Total current consumption of all connected sensor.





Transmitte

DC 3-wire

Output

Transmitter

PUR / Ø6.3, 7x0.3mm²

RPTA-TF3005-PU-01

Body 130g + Cable60g × 1m

Housing:Fluorinated resin coated/Active face:Fluorinated resin

 \pm

Nickel plated brass

1...5mm

± 3mm ≤ 40mA

RPTA-3005-PU-01

12V ± 1.5V DC

max.40mA

1...5mm

 \pm 6mm

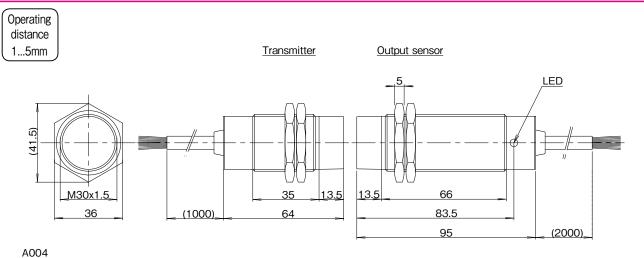
 $\leq 30 mA$

Nylon 12

IP67

Power supply

& PLC



	Output sensor		
Type NPN	RPEA-3005N-PU-02		
Code 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°C		
Protection class	IP67		
Cable	PUR / Ø6.3 , 7x0.3mm ²		
Material Housing	Nickel plated brass		
Active face	Nylon 12		
Weight	Body 160g + Cable60g × 2m		

RPEA-TF3005N-PU-02

RPEA-TF3005P-PU-02

Housing:Fluorinated resin coated/Active face:Fluorinated resin

Wiring

C002/P.114

Signal type
Switch
Sensor type



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 hermometer type

nad cell tyne

nalog sensor pe

Applicable sensor

NPN

PNP

Operating temperature 0...+50°C

Housing

Anti-weld slag NPN

Active face

PNP

Туре

Code

Drive voltage

Drive current

Center offset

Drive current

Cable

Material

Weight

Type Code

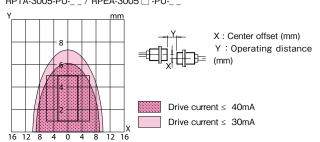
Protection class

No. of input signal Operating distance

Supply voltage	12V DC
Total current consumption*	≤ 40mA
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) RPTA-3005-PU-_ / RPEA-3005 □ -PU-_ _



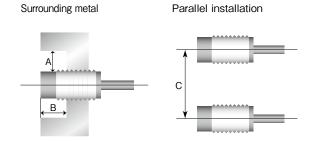
Installation notes

Anti-weld slag NPN

PNP

Type Code

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.



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

Exclusive sensor

other unit

Wiring

Products for maintenance

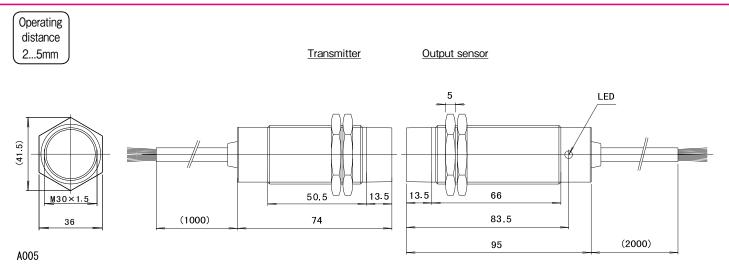
Special spe

Alphanumeric product list

^{*}Total current consumption of all connected sensor.



for max. 8 sensors / Size: M30



Wiring	C004/P.115

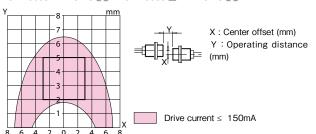
Transmitter		Output sensor		
Type NPN	RGPT-3005-V1215-PU-01	Type NPN	RGPE-3005-V1215N-PU-02	
Code PNP	NGF1-3003-V1213-F0-01	Code PNP	RGPE-3005-V1215P-PU-02	
Drive voltage	12V ± 1.5V DC	Operational voltage	24V DC ± 10% (incl. ripple)	
Drive current	max.150mA	Current consumption	≤ 400mA	
No. of input signal	8	No. of output signal	8 +1(InZone)	
Operating distance	25mm	Load current	max.50mA per output	
Center offset	± 3mm	Frequency of operation	60Hz	
Drive current	≤ 150mA	LED	InZone	
Operating temperature	0+50°C	Operating temperature	0+50℃	
Protection class	IP67	Protection class	IP67	
Cable	PUR / Ø7.7 , 2x0.5mm ² + 9x0.18mm ²	Cable	PUR / Ø7.7 , 2x0.5mm² + 9x0.18mm²	
Material Housing	Nickel plated brass	Material Housing	Nickel plated brass	
Active face	Nylon 12	Active face	Nylon 12	
Weight	Body 150g + Cable75 g × 1 m	Weight	Body 180g + Cable75g × 2 m	
Remarks		Remarks		

Applicable sensor

Supply voltage	12V DC
Total current consumption*	≤ 150mA
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) RGPT-3005-V1215-PU-_ _ / RGPE-3005 -V1215-PU-_ _



Installation notes

Surrounding metal

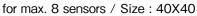
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Transmitters or Output sensors, keep the minimum distances as described below.

Parallel installation

A C

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

^{*}Total current consumption of all connected sensor.



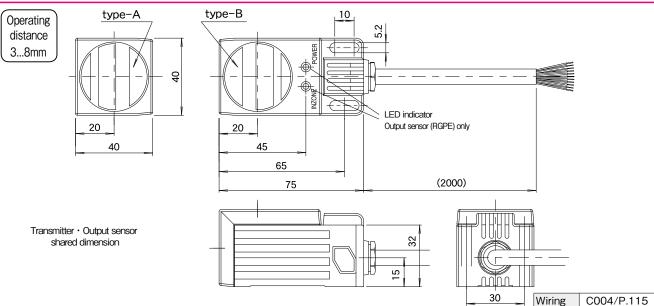
Transmitter

DC 3-wire

Output

Power supply

& PLC



Transmitter		
Type NPN Code PNP	RGPT-4008-V1220A/B*-PU-01	
Drive voltage	12V ± 1.5V DC	
Drive current	max.200mA	
No. of input signal	8	
Operating distance	38mm	
Center offset	± 3mm	
Drive current	≤ 200mA	
Operating temperature	0+50℃	
Protection class	IP67	
Cable	PUR / Ø7.7 , 2x0.5mm ² + 9x0.18mm ²	
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).		

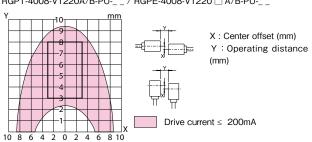
	Output sensor
Type NPN	RGPE-4008-V1220NA/B*-PU-02
Code PNP	RGPE-4008-V1220PA/B*-PU-02
Operational voltage	24V DC ± 10% (incl. ripple)
Current consumption	≤ 500mA
No. of output signal	
Load current	max.50mA per output
Frequency of operation	
LED	InZone (Yellow) / Power (Green)
Operating temperature	0+50°C
Protection class	IP67
Cable	PUR / Ø7.7 , 2x0.5mm ² + 9x0.18mm ²
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*	$\leq 200 mA$
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) RGPT-4008-V1220A/B-PU-_ _ / RGPE-4008-V1220 A/B-PU-_ _



Combination between RGPT-4008 and RGPE-4008

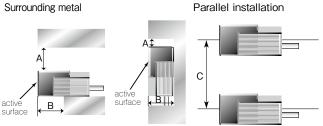
Refer to the followings for the combination of active faceA and B



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



Type Code	A(mm)	B(mm)	C(mm)
RGPT-4008-V1220A/B-PU	40	40	200
RGPE-4008-V1220 A/B-PU	40	40	300

Signal type Switch



Remote Sensor

DC 3-wire detector type

DC 3-wire type Terminal unit

DC 2-wire detector type

DC 2-wire type Terminal unit

Wiring

^{*}Total current consumption of all connected sensor.

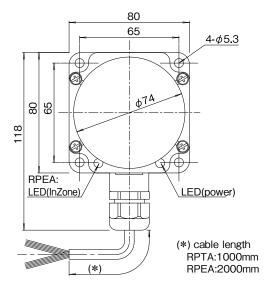


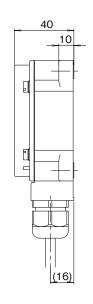
for max. 8 sensors / Size: 80 x 80



Transmitter · Output sensor shared dimension

LED indicator: Output sensor (RPEA) only





Wiring C003/P.114

	Transmitter		
Type NPN	DDTA 9015 DL	DDT 4 0045 DU 04	
Code PNP	RPTA-8015-PU	I-O I	
Drive veltege	12V ± 1.5V DC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Drive voltage		,	
Drive current	max.100mA		
No. of input signal	8		
Operating distance	222mm	415mm	
Center offset	± 12mm	± 10mm	
Drive current	≤ 50mA	≤ 100mA	
Operating temperature	0+50℃		
Protection class	IP67		
Cable	PUR / Ø7.9, 12x0.18mm ²		
Material Housing	Nylon		
Active face	Nylon		
Weight	Body 440g + Cable80 g × 1 m		
Remarks			

A007

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

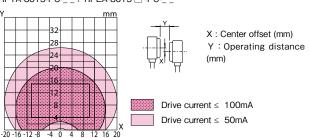
Applicable sensor

Supply voltage	12V DC
Total current consumption*	$\leq 100 mA$
Residual voltage	≤ 3.5V
Load current	

Please use a sensor which works definitely in the condition described 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-_

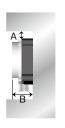


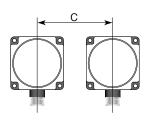
Installation notes

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

Surrounding metal







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

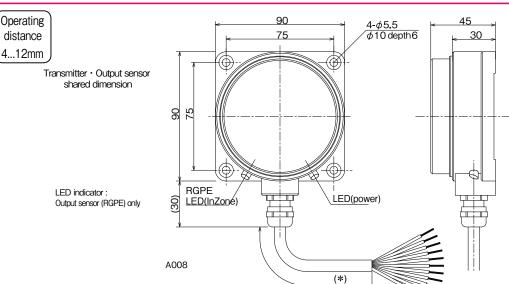
Transmitte

DC 3-wire

Output

Power supply

& PLC



(*) cable length

Signal type Switch Sensor type

Remote Sensor

DC 3-wire

DC 3-wire detector type

RGPT:1000mm RGPE:2000mm		Wiring	C004/P.115
	Output sensor		
Type NPN	RGPE-9012-V2430N-PU-02		
Code PNP	RGPE-9012-V2430	P-PU-02	
Operational voltage	24V DC ± 10% (incl. ripple)		
Current consumption	≤ 1 A		
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°C		
Protection class	IP67		
Cable	PUR / Ø7.7 , 2x0.5mm ² + 9x0.18mm ²		
Material Housing	Aluminum + alumite processing (metal part)		
Active face	ABS+PBT (resin part)		
Weight	Body 650g + Cable75g × 2 m		
Remarks			

Applicable sensor

NPN

PNP

Type

Code

Drive voltage

Drive current

Center offset

Drive current

Cable

Weight

Remarks

No. of input signal

Operating distance

Operating temperature Protection class

Active face

Material Housing

Supply voltage	24V DC
Total current consumption*	$\leq 300 mA$
Residual voltage	≤ 6V
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) RGPT-9012-V2430-PU-_ _ / RGPE-9012-V2430 -PU-_ _

Transmitter

24V ± 1.5V DC

ABS+PBT (resin part)

max.300mA

4...12mm

 \pm 7mm

 $\leq 300 mA$ 0...+50°C

IP67

8

RGPT-9012-V2430-PU-01

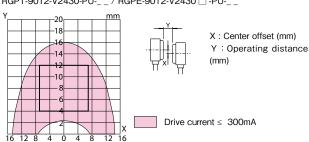
PUR / \emptyset 7.7, $2x0.5mm^2 + 9x0.18mm^2$

Body 650 g + Cable75g × 1 m

Aluminum + alumite processing (metal part)

The AC 2-wire sensor can be connected by the

interchange conversion amplifier unit (P.110).



Installation notes

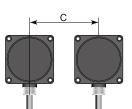
RGPT:1000mm

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



RGPE-9012-V2430 -PU-



	II		II
Type Code	A(mm)	B(mm)	C(mm)
RGPT-9012-V2430-PU	50	45	300
DCDE 0010 V0420 🗆 DU] 50	45	300

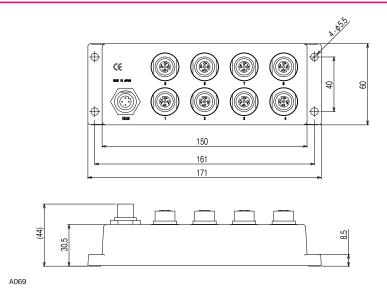
Parallel installation

Wiring

^{*}Total current consumption of all connected sensor.



for max. 8 sensors Terminal unit type / Remote Terminal



This dimensional drawing shows connector type 1.

Wiring	C025/P.119

	Transmitter / Remote terminal
Type Connector type 1	RS8TA-222P-S04
Code 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)

Please use a sensor which works

definitely in the condition described

on left.

Applicable sensor

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

*Total current consumption of all connected sensor.

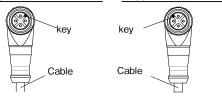
Pin assigned of connector for sensors

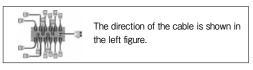
1:+
2:
3:4:SI

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_





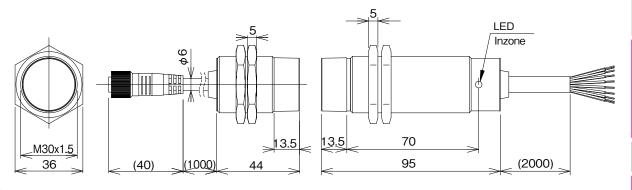
The straight connector can be used to both type of Remote Terminal.

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



Transmitting head

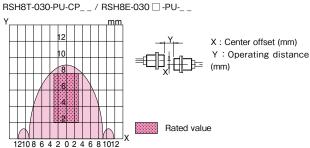
Output sensor



A057

			Wiring C025/P.119	
Transmitter / Transmitting head		Output sensor		
Type conect to	DOLLOT 000 DILLORA 0	Type NPN	RSH8E-030N-PU-02	
Code Remote Terminal	RSH8T-030-PU-CP1.0	Code PNP	RSH8E-030P-PU-02	
Drive voltage	22V ± 1.5V DC	Operational voltage	24V DC ± 10% (incl. ripple)	
Drive current	120mA	Current consumption	≤ 500mA	
Remote terminal	RS8TA-222S04、RS8T-222S04	No. of output signal 8 +1 (InZone)		
Operating distance	28mm	Load current max.50mA per output		
Center offset	± 3mm	Frequency of operation 20Hz		
Drive current	120mA	LED InZone		
Operating temperature	0+50°C	Operating temperature	0+50°C	
Protection class	IP67	Protection class IP67		
Cable	M12 connector Cable (1m, 3m, 5m)	Cable PUR/ Ø7.7、2x0.5mm ² +9x0.18mm 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 75 g x 2 m	
Anti-weld slag comed	DOUGT TERMS BUILDING	Anti-weld slag NPN	RSH8E-TF030N-PU-02	
Type Code to Remote Terminal	RSH8T-TF030-PU-CP1.0	Type Code PNP	RSH8E-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)

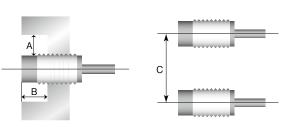


Installation notes

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.

Parallel installation

Surrounding metal



Type Code	A(mm)	B(mm)	C(mm)
RSH8T-030-PU-CP	20	20	160
RSH8E-030 □ -PU	30	30	160





Remote Sensor

DC 3-wire detector type

DC 3-wire type Terminal unit

DC 2-wire detector type

DC 2-wire type Terminal unit

detector type

type Pasiatanas

hermometer type

Load cell type

Analog sensor type

Exclusive sensor

Terminal box other unit

Wiring

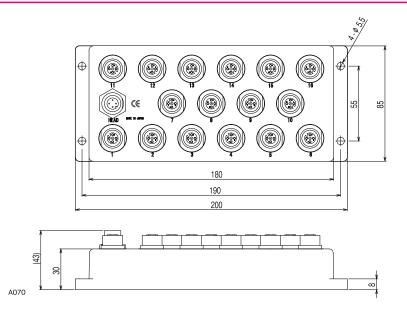
Products for

Special sp

Alphanumerion 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 Connector type 1	RS16TA-211P-S04
Code 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°C
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)

Please use a sensor which works

definitely in the condition described

on left.

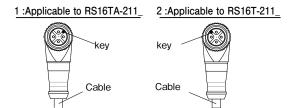
Applicable sensor

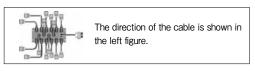
Supply voltage	12V DC
Total current consumption*	≤ 150mA
Residual voltage	≤ 3.5V
Load current	

*Total current consumption of all connected sensor.

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.





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

signal

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

Output

sensor

Power supply

& PLC

Transmitting

head

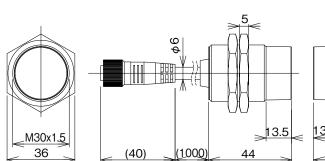
< Transmitter >

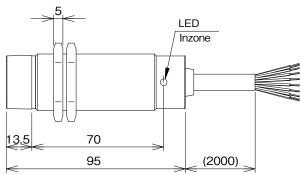
Terminal



DC 3-wire

Transmitting head Output sensor





Wiring

C026/P.119

A057

Output sensor				
Type NPN	RSH16E-030N-PU-02			
Code PNP	RSH16E-030P-PU-02			
Operational voltage	24V DC ± 10% (incl. ripple)			
Current consumption	≤ 500mA			
No. of output signal	16 +1 (InZone)			
Load current	max.50mA per output			
Frequency of operation	20Hz			
LED	InZone			
Operating temperature	0+50℃			
Protection class	IP67			
Cable	PUR/ Ø8.5、2x0.5mm ² +17x0.18mm ²)			
Material Housing	Nickel plated brass			

/			
Ira	ansmitter / Transmitting head		
Type conect to 12 V Code Remote Terminal	RSH16T-030-PU-CP1.0		
Drive voltage	22V ± 1.5V DC		
Drive current	120mA		
Remote terminal	RS16TA-211S04、RS16T-211S04		
Operating distance	28mm		
Center offset	± 3mm		
Drive current	120mA		
Operating temperature	0+50°C		
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	RSH16T-TF030-PU-CP1.0		

Material Housing:Fluorinated resin coated/Active face:Fluorinated resin

Anti-weld slag NPN

Weight

Type Code

Active face Nylon 12

PNP

Material

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.

Body 160 g + Cable 110 g x 2 m

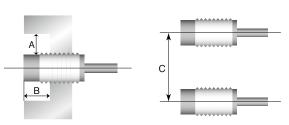
RSH16E-TF030N-PU-02

RSH16E-TF030P-PU-02

Surrounding metal

Parallel	instal	lation

Housing:Fluorinated resin coated/Active face:Fluorinated resin



Type Code	A(mm)	B(mm)	C(mm)
RSH16T-030-PU-CP	20	30	160
RSH16E-030 □ -PU	30		

Signal type Switch

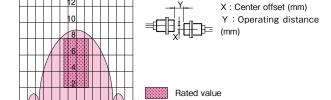


Remote Sensor

DC 3-wire type Terminal unit

DC 2-wire type Terminal unit

Wiring



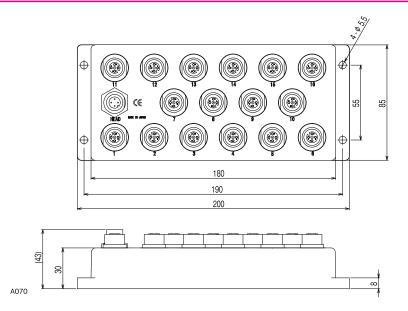
Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount)

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

1210 8 6 4 2 0 2 4 6 8 1012



for max. 16 sensors Terminal unit type / Remote Terminal



This dimensional drawing shows connector type 1.

Wiring C026/P.119

	Transmitter / Remote terminal
- Ott 1	
Type Connector type 1	RS16TB-211P-S04
Code 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°C
Protection class	IP67
Connection Sensor	Connector M12 (Female) x 16
Transmitting head	Connector M12 (Male) x 1
Material Housing	PPS
Weight	1000 g
La aborda al	F. Marian and A. Marian.
Included	Ferrite core clamp
Remarks	The unused connectors should be protected by a protection cap. (option:Type Code XS2Z-12)

Please use a sensor which works

definitely in the condition described

on left.

Applicable sensor

Supply voltage	24V DC
Total current consumption*	$\leq 550 mA$
Residual voltage	≤ 6V
Load current	

*Total current consumption of all connected sensor.

Pin assigned of connector for sensors

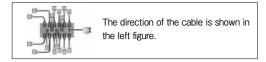
1:+
2:
3:4:SI

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_





Output sensor

Output

sensor

Power supply

& PLC

Transmitting head

Transmitting

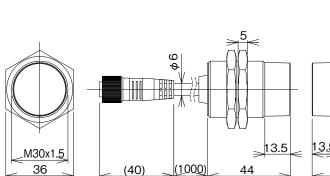
head

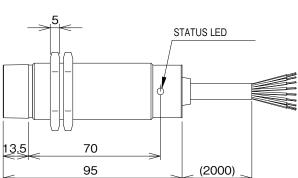
< Transmitter >

Terminal



DC 3-wire





Wiring

C026/P.119

A057

Transmitter / Transmitting head					
Type conect Remote 7	to 24 V Ferminal	RSH16TB-030-PU-CP1.0			
Remote terminal		RS16TB-211P-S04			
Operating dista	ance	05mm 25mm			
Center offset		± 2.5mm			
Drive current *	ķ	≤ 300mA	≤ 550mA		
		0+50°C IP67			
		M12 connector Cable (1m, 3m, 5m)			
Material Housin	Material Housing Nickel plated brass				
Active face		Nylon 12			
Weight		Body 120 g + Cable 50 g			
Remarks					

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

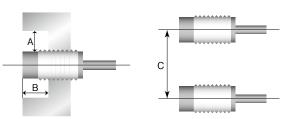
	Output sensor		
Туре			
Code PNP	RSH16EB-030P-PU-02		
Operational voltage	24V DC ± 10% (incl. ripple)		
Current consumption	≤ 1A		
No. of output signal	16 +1 (InZone)		
Load current	max.50mA per output		
Frequency of operation	20Hz		
Start-up time	≤ 2 sec.		
LED	InZone, OutZone, Over heat, Short		
Operating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

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-	40	32	

Signal type Switch

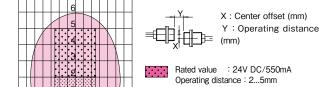


Remote Sensor

DC 3-wire type Terminal unit

DC 2-wire type Terminal unit

Wiring



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

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

Rated value : 24V DC/300mA Operating distance : 0...5mm