Wireless power supply by
B&PLUS®
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Remote Sensor system
Compact shape / 4・12 signals

Thin and compact remote sensor!

More compact than a current product !

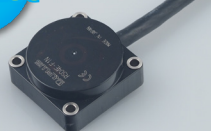Reduction of 70mm in length!

45x45x25mm

Good ☆   Dr.Winyaless

- **Compact design**
- **Dustproof and waterproof IP67**
- **wide variety of products**

Just by facing them, wireless power Supply & signal transmission

Ultra-compact
DC 3-wire/4signals
（12V60mA）

best seller
DC 3-wire/12signals
（12V230mA）

2wire・3wire compatible
DC2・3-wire/12signals
（12V150mA）

For welding
Anti-weld/slag(type)
DC 3-wire/12signals
（12V230mA）

Power up & For high speed
DC 3-wire/12signals
（24V1A）

Multipoint transmission
DC 3-wire/24signals
（24V1A）

Bi-directional transmission
DC 3-wire/4+4ATC
（24V1A）

IO-Link 2ch
IO-Link 2ch transmission
（24V1A）

Low price & Power supply only
Power supply only
（24V1A）

For Scala Robot
Integrated rotating unit
Both for DC2wire
DC3wire 12signals

We also offer compatible options

For 12signals
Terminal Box
(grommet type)

Terminal Box
(cable gland type)
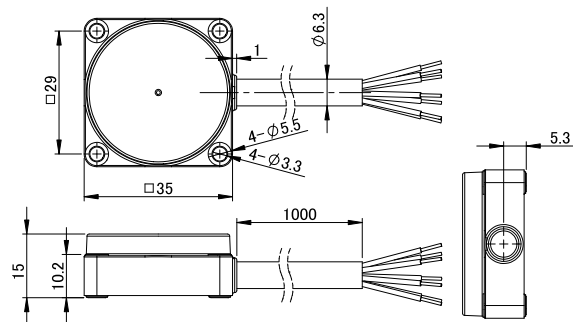
Easily attached
Bracket for 12signals
（45 × 45 mm）

Bracket for 24signals
（55 × 55 mm）

Supports 12-point signal transmission to protect the connection.Connect two units for up to 24 points.
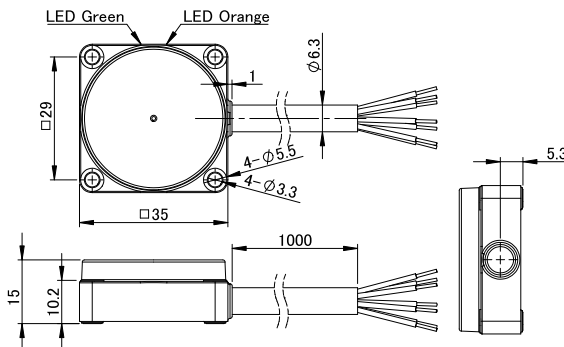
Made of rust-resistant SUS304 stainless steel. aIncludes mounting screws for quick installation.

4 signal transmission （DC 3-wire Detector type）
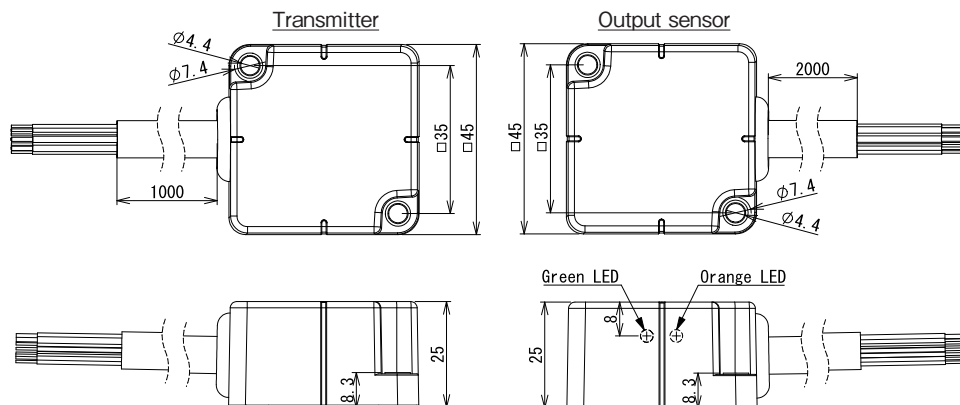
Transmitter

Output sensor

LED Green   LED Orange

· Cable Bending radius R=50mm
· Made from robot cable that
  is resistant to bending.
  Please contact us if you would
  like to extend the cable length.

Remote part	
Type code	NPN
	PNP **RS04T-F1-PU-01**
Output voltage	12V ± 1.5V DC	
Output current total	≦ 30mA	≦ 60mA
No. of Input signals	4 signals	
Operating distance	0...3mm	0...2mm
Center offset	± 2mm	± 1mm

Operating temperature	0...+50℃
Protection class	IP67
Cable	PUR ϕ 6.3 (7x0.259mm^2)
Material Housing	ABS
Weight	Body 25 g + Cable 60 g/m

Base part	
Type code NPN	**RS04E-F1N-PU-02**
PNP	**RS04E-F1P-PU-02**
Supply voltage	24V DC ± 10% (incl.ripple)
Current consumption	≦ 200mA
No. of output signal	4 + 1 (Inzone)
Load current	max.50mA（Per 1 signal）
Frequency of operation	60Hz
LED	Status LED (Green) , InZone LED (Orange)

Operating temperature	0...+50℃
Protection class	IP67
Cable	PUR ϕ 6.3 (7x0.259mm^2)
Material Housing	ABS
Weight	Body 25 g + Cable 60 g/m

*When connecting a 2-wire sensor, connect it via an external resistor.

12 signal transmission （DC 3-wire / DC 2-wire and 3-wire Detector type） *12V output

Transmitter

Output sensor

Green LED   Orange LED

· Cable Bending radius R=50mm
· Made from robot cable that
  is resistant to bending.
  Please contact us if you would
  like to extend the cable length.

Remote part	DC 3-wire	DC 2-wire / 3-wire
Type code NPN	**RS12T-422-PU-01**	**RS12T-422N-PU-01**
PNP		**RS12T-422P-PU-01**
Output voltage	12V ± 1.5V DC	For DC 3-wire : ≦ 150mA
Output current total	≦ 230 mA	For DC 2-wire : 6mA/each
No. of Input signals	12 signals	
Operating distance	2...5mm	
Center offset	± 3mm	

Operating temperature	0...+50℃
Protection class	IP67
Cable	PUR / ϕ 8.6 (2x0.5mm^2 + 13+x0.18mm^2)
Material Housing	ABS
Weight	Body 75 g + Cable 105 g /m

Base part	
Type code NPN	**RS12E-422N-PU-02**
PNP	**RS12E-422P-PU-02**
Supply voltage	24V DC ± 10% (incl.ripple)
Current consumption	≦ 600mA
No. of output signal	12 +1 signals
Load current	max.50mA（Per 1 signal）
Frequency of operation	60Hz
LED	Status LED (Green) , InZone LED (Orange)

Operating temperature	0...+50℃
Protection class	IP67
Cable	PUR / ϕ 8.6 (2x0.5mm^2 + 13+x0.18mm^2)
Material Housing	ABS
Weight	Body 80 g + Cable 105 g / m

We also have a anti-weld/slag series that is ideal for welding sites.

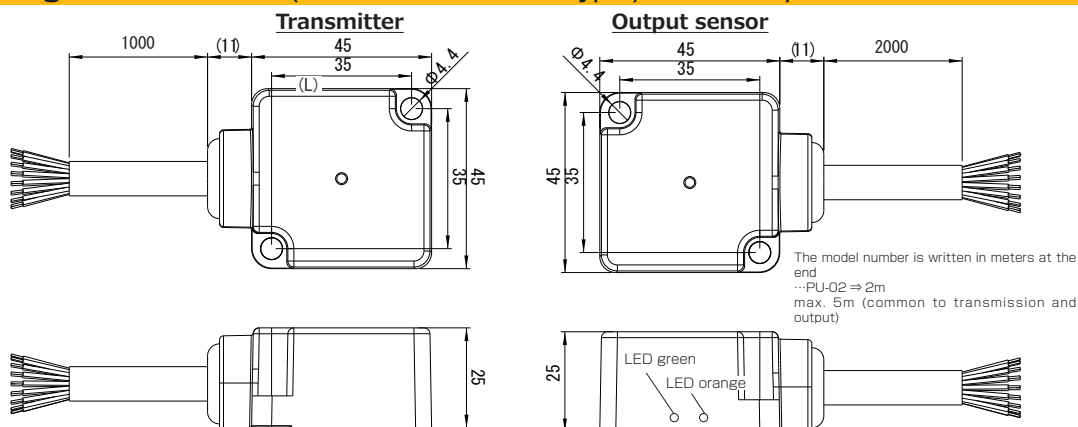
*Spatter-resistant
(Back type cable)

*Spatter-resistant
(Side type cable)

· Housing protection by Teflon coating/Teflon cap
· Cable is also protected by glass tube
· Choice of cable exiting (back/side)

★ Resists adhesion of welding
spatter and metal chips, and it's
highly chemical-resistant, meow ★

12 signal transmission (DC 3-wire Detector type) *24V output

Transmitter

Output sensor

The model number is written in meters at the end
···PU-02 ⇒ 2m
max. 5m (common to transmission and output)

LED green
LED orange

· Cable Bending radius R=50mm
· Made from robot cable that
  is resistant to bending.
  Please contact us if you would
  like to extend the cable length.

Remote part	
Type code	**RS12TA-422-PU-01**
Output voltage	24V ± 1.5V DC
Output current total	≦ 1A
No. of Input signals	12 signals
Operating distance	＜ 2mm 2…3mm
Center offset	± 4mm ± 1.5mm
Operating temperature	0…+50℃
Protection class	IP67
Cable	PUR φ 8.6 (2x0.5mm^2 + 13x0.18mm^2)
Material	Case : PBT
Weight	Body 110 g + Cable 105 g /m

Base part		
Type	NPN	**RS12EA-422N-PU-02**
code	PNP	**RS12EA-422P-PU-02**
Supply voltage		24V DC ± 5% (incl.ripple)
Current consumption		≦ 1.4A
No. of output signal		12+1 (Inzone)
Load current		max.50mA（Per 1 signal)
Frequency of operation		600Hz
LED		Status LED (Green) , InZone LED (Orange)
Operating temperature		0…+50℃
Protection class		IP67
Cable		PUR φ 8.6 (2x0.5mm^2 +13x0.18mm^2)
Material		Case : PBT
Weight		Body 110 g + Cable 105 g /m

24 signal transmission (DC 3-wire Detector type)

Transmitter

Cable2
Cable1

Output sensor

Cable2
Cable1
Mark tube

The model number is written in meters at the end
···PU-02 ⇒ 2m
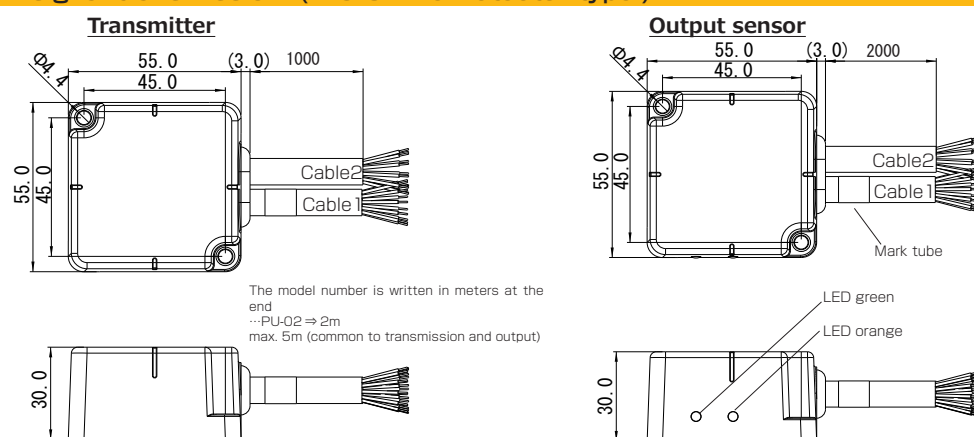max. 5m (common to transmission and output)

LED green
LED orange

· Cable Bending radius R=50mm
· Made from robot cable that
  is resistant to bending.
  Please contact us if you would
  like to extend the cable length.

Remote part		
Type NPN		**RS24T-424-PU-01**
code PNP		
Output voltage	24V ± 1.5V DC	
Output current total	≦ 1A	0.5A
No. of Input signals	24 signals	
Operating distance	0…4mm (1A output)	0…6.5mm (0.5A output)
Center offset(1A)	± 6mm :Transmission distance is within 3mm	
	± 2.5mm:Transmission distance 3…4mm	
Center offset(0.5A)	± 8mm :Transmission distance is within 4.5mm	
	± 3mm :Transmission distance 4.5…6.5mm	
Operating temperature	0…+50℃	
Protection class	IP67	
Cable	PUR 8.6 × 2 (2x0.5mm^2 + 13x0.18mm^2) + (12x0.18 mm^2)	
Material	Case:Polyurethane Heat sink:Aluminum	
Weight	Body165 g + Cable 105 g /m	

Base part		
Type	NPN	**RS24E-424N-PU-02**
code	PNP	**RS24E-424P-PU-02**
Supply voltage		24V DC ± 5% (incl.ripple)
Current	active	≦ 1.5A (with 1A output)
consumption	static	≦ 0.1A (when not facing)
No. of output signal		24+1 (Inzone)
Load current		max.50mA（Per 1 signal)
Frequency of operation		300Hz
LED		Status LED (Green) , InZone LED (Orange)
Operating temperature		0…+50℃
Protection class		IP67
Cable		PUR φ 8.6 × 2（2x0.5mm^2 +13x0.18mm^2）+（12x0.18 mm^2）
Material		Case:Polyurethane Heat sink:Aluminum
Weight		Body 165 g + Cable 105 g /m

Other lineup

4 inputs + 4 outputs (24V1A)

Remote part
RC04T-422N/P-PU-01
Base part
RC04E-422N/P-PU-02

Operating distance
/0…3mm
Center offset/ ± 1.5mm

IO-Link2ch (24V1A)

Remote part
RCD55T-422-CP0.3
Base part
RCD55E-422-CP0.3

Operating distance
/0…3mm
Center offset/ ± 1.5mm

Power supply only (24V1A)

Remote part
RVT-422-201-PU-01
Base part
RVE-422-2-PU-02

Operating distance
/0…3mm
Center offset/ ± 1.5mm

Terminal box （grommet type）

Specification	
Type code	RPK-P1012
Number of connectable sensors	Connect up to 12 sensors. Link two units to connect up to 24 sensors
Housing	Material: ABS resin (UL94HB), Gasket material: Polyurethane
Terminal block screws	12 poles for signals / 12 poles for COM+ and - Screw with square washer (M3 x 7.2) Tightening torque 0.5N・mMAX
Membrane Grommet	Material: EPDM
Mounting Method	Fixing with M4 screws (thickness of case at screw part is 6mm)
Weight	430g

Terminal box （cable gland type）

★ With IP65 protection, it's waterproof and dustproof—no worries, meow! ★

Specification	
Type code	RPK-P2G12-M12
Protection class	IP65
Number of connectable sensors	Connect up to 12 sensors. Link two units to connect up to 24 sensors
Housing	Material: ABS resin (UL94HB), Gasket material: Polyurethane
Terminal block screws	Signal 12 poles / COM+/- 14 poles (M3 × 7.2) Tightening torque 0.5N・mMAX
Cable gland for detection sensor	Body, cap, nut (12 pieces) Material: PA66 (UL94-V2) Rubber bushing, O-ring material: NBR Compatible cable diameter: φ 3.5 to 7 mm Recommended sealing plug: SP-12
Waterproof Hole Plug	Body and nut material: PA66 (UL94-V2), O-ring material: NBR
Mounting Method	Fixing with M4 screws (thickness of case at screw part is 6mm)
Weight	570g

Bracket for sensor

Bracket for 12signals （45×45mm）

Type code :
 B-PLUS-BLOP-01
Material : SUS
Thickness : 3mm

※Mounting screws included
※Mounting hole pitch 35mm

Bracket for 24signals （55×55mm）

Type code :
 B-PLUS-BLOP-04
Material : SUS
Thickness : 3mm

※Mounting screws included
※Mounting hole pitch 45mm

* Info may change the mention contents such as specifications without a notice.
  Thank you for understanding
* Please refer to instruction manual or the user's guide. It can be download by HP.