


PRW Series

Cylindrical Cable Connector Type Proximity Sensor

■ Features

- Shorten the time of maintenance with the body
- Improved the noise immunity with dedicated IC
- Built-in reverse polarity protection circuit (DC 3-wire type)
- Built-in surge protection circuit
- Built-in over-current protect protection circuit
- IP67 protection structure (IEC standard)
- Replaceable for micro switches and limit switches

 Please read "Safety Considerations" in operation manual before using.



■ Specifications

• DC 2-wire type

※When the □ model name is X, it is non-polarity model.

| Model | PRWT08-1.5DO PRWT08-1.5DC PRWT08-1.5DO-I PRWT08-1.5DC-I PRWT08-1.5DO-V PRWT08-1.5DC-V PRWT08-1.5DO-IV PRWT08-1.5DC-IV | PRWT08-2DO PRWT08-2DC PRWT08-2DO-I PRWT08-2DC-I PRWT08-2DO-V PRWT08-2DC-V PRWT08-2DO-IV PRWT08-2DC-IV | PRWT12-2□DO PRWT12-2□DC PRWT12-2□DO-I PRWT12-2□DC-I | PRWT12-4□DO PRWT12-4□DC PRWT12-4□DO-I PRWT12-4□DC-I | PRWT18-5□DO PRWT18-5□DC PRWT18-5□DO-I PRWT18-5□DC-I | PRWT18-8□DO PRWT18-8□DC PRWT18-8□DO-I PRWT18-8□DC-I | PRWT30-10□DO PRWT30-10□DC PRWT30-10□DO-I PRWT30-10□DC-I PRWT30-10DO-V PRWT30-10DC-IV | PRWT30-15□DO PRWT30-15□DC PRWT30-15□DO-I PRWT30-15□DC-I PRWT30-15DO-V PRWT30-15DC-IV |
|----------------------------------|--|--|--|--|--|--|---|---|
| Sensing distance | 1.5mm | 2mm | | 4mm | 5mm | 8mm | 10mm | 15mm |
| Hysteresis | Max. 10% of sensing distance | | | | | | | |
| Standard sensing target | 8×8×1mm (iron) | | 12×12×1mm (iron) | | 18×18×1mm (iron) | 25×25×1mm (iron) | 30×30×1mm (iron) | 45×45×1mm (iron) |
| Setting distance | 0 to 1.05mm | 0 to 1.4mm | | 0 to 2.8mm | 0 to 3.5mm | 0 to 5.6mm | 0 to 7mm | 0 to 10.5mm |
| Power supply (operation voltage) | 12-24VDC--- (10-30VDC---) | | | | | | | |
| Leakage current | Max. 0.6mA | | | | | | | |
| Response frequency*1 | 1.5kHz | 1kHz | 1.5kHz | 500Hz | | 350Hz | 400Hz | 200Hz |
| Residual voltage*2 | Max. 3.5V (non-polarity type is Max. 5V) | | | | | | | |
| Affection by Temp. | Max. ±10% for sensing distance at ambient temperature 20°C (for PRWT08 Series: ±20% Max.) | | | | | | | |
| Control output | 2 to 100mA | | | | | | | |
| Insulation resistance | Over 50MΩ (at 500VDC meggera) | | | | | | | |
| Dielectric strength | 1,500VAC 50/60Hz for 1 minute | | | | | | | |
| Vibration | 1mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours | | | | | | | |
| Shock | 500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times | | | | | | | |
| Indicator | Operation indicator: Red LED | | | | | | | |
| Environment | Ambient temperature | -25 to 70°C, storage: -30 to 80°C | | | | | | |
| | Ambient humidity | 35 to 95%RH, storage: 35 to 95%RH | | | | | | |
| Protection circuit | Surge protection circuit | | Surge protection circuit, Over-current protection circuit | | | | | |
| Protection structure | IP67 (IEC standard) | | | | | | | |
| Material | Case/Nut: Nickel plated brass, Washer: Nickel plated iron, Sensing surface: Heat-resistant Acrylonitrile butadiene styrene, Standard cable (black): Polyvinyl chloride (PVC), Oil resistant cable (gray): Oil resistant polyvinyl chloride (PVC) | | | | | | | |
| Cable | Ø4mm, 2-wire, 300mm, M12 connector | | | | Ø5mm, 2-wire, 300mm, M12 connector | | | |
| | (AWG22, Core diameter: 0.08mm, Number of cores: 60, Insulator diameter: Ø1.25mm) | | | | | | | |
| Approval | | | | | | | | |
| Weight*3 | Approx. 44g (approx. 32g) | | Approx. 54g (approx. 42g) | | Approx. 70g (approx. 58g) | | Approx. 134g (approx. 122g) | |

※1: The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

※2: Before using non-polarity type, check the condition of connected device because residual voltage is 5V.

※3: The weight includes packaging. The weight in parenthesis is for unit only.

※Please fasten the vibration part with PTFE type.

※The □ of model name is for power type. 'D' is 12-24VDC, 'X' is non-polarity 12-24VDC.

※The last 'V' of model name is for the model with oil-resistance reinforced cable.

※Environment resistance is rated at no freezing or condensation.

Cylindrical Cable Connector Type

■ Specifications

● DC 3-wire type

| Model | PRW08-1.5DN PRW08-1.5DP PRW08-1.5DN2 PRW08-1.5DP2 PRW08-1.5DN-V PRW08-1.5DP-V PRW08-1.5DN2-V PRW08-1.5DP2-V PRWL08-1.5DN PRWL08-1.5DP PRWL08-1.5DN2 PRWL08-1.5DP2 | PRW08-2DN PRW08-2DP PRW08-2DN2 PRW08-2DP2 PRW08-2DN-V PRW08-2DP-V PRW08-2DN2-V PRW08-2DP2-V PRWL08-2DN PRWL08-2DP PRWL08-2DN2 PRWL08-2DP2 | PRW12-2DN PRW12-2DP PRW12-2DN2 PRW12-2DP2 | PRW12-4DN PRW12-4DP PRW12-4DN2 PRW12-4DP2 | PRW18-5DN PRW18-5DP PRW18-5DN2 PRW18-5DP2 PRWL18-5DN PRWL18-5DP PRWL18-5DN2 PRWL18-5DP2 | PRW18-8DN PRW18-8DP PRW18-8DN2 PRW18-8DP2 PRWL18-8DN PRWL18-8DP PRWL18-8DN2 PRWL18-8DP2 | PRW30-10DN PRW30-10DP PRW30-10DN2 PRW30-10DP2 PRW30-10DN-V PRW30-10DP-V PRW30-10DN2-V PRW30-10DP2-V PRWL30-10DN PRWL30-10DP PRWL30-10DN2 PRWL30-10DP2 | PRW30-15DN PRW30-15DP PRW30-15DN2 PRW30-15DP2 PRW30-15DN-V PRW30-15DP-V PRW30-15DN2-V PRW30-15DP2-V PRWL30-15DN PRWL30-15DP PRWL30-15DN2 PRWL30-15DP2 |
|----------------------------------|--|--|--|--|--|--|--|--|
| Sensing distance | 1.5mm | 2mm | | 4mm | 5mm | 8mm | 10mm | 15mm |
| Hysteresis | Max. 10% of sensing distance | | | | | | | |
| Standard sensing target | 8×8×1mm (iron) | | 12×12×1mm (iron) | | 18×18×1mm (iron) | 25×25×1mm (iron) | 30×30×1mm (iron) | 45×45×1mm (iron) |
| Setting distance | 0 to 1.05mm | 0 to 1.4mm | | 0 to 2.8mm | 0 to 3.5mm | 0 to 5.6mm | 0 to 7mm | 0 to 10.5mm |
| Power supply (operation voltage) | 12-24VDC (10-30VDC) | | | | | | | |
| Current consumption | Max. 10mA | | | | | | | |
| Response frequency ^{*1} | 1.5kHz | 1kHz | 1.5kHz | 500Hz | 350Hz | 400Hz | 200Hz | |
| Residual voltage | Max. 2V | | Max. 1.5V | | | | | |
| Affection by Temp. | Max. ±10% for sensing distance at ambient temperature 20°C (for PRW(L)08 series: ±20% Max.) | | | | | | | |
| Control output | 200mA | | | | | | | |
| Insulation resistance | Over 50MΩ (at 500VDC megger) | | | | | | | |
| Dielectric strength | 1,500VAC 50/60Hz for 1minute | | | | | | | |
| Vibration | 1mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours | | | | | | | |
| Shock | 500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times | | | | | | | |
| Indicator | Operation indicator: Red LED | | | | | | | |
| Environment | Ambient temperature: -25 to 70°C, storage: -30 to 80°C Ambient humidity: 35 to 95%RH, storage: 35 to 95%RH | | | | | | | |
| Protection circuit | Surge protection circuit, Reverse polarity protection circuit, Over-current protection circuit | | | | | | | |
| Protection structure | IP67 (IEC standard) | | | | | | | |
| Material | Case/Nut: Nickel plated brass, Washer: Nickel plated iron, Sensing surface: Heat-resistant Acrylonitrile butadiene styrene Standard cable (black): Polyvinyl chloride (PVC), Oil resistant cable (gray): Oil resistant polyvinyl chloride (PVC) | | | | | | | |
| Cable | Ø4mm, 3-wire, 300mm, M12 connector | | | | Ø5mm, 3-wire, 300mm, M12 connector | | | |
| Approval | CE | | | | | | | |
| Weight ^{*2} | PRW: Approx. 44g (approx. 32g) PRWL: Approx. 46g (approx. 34g) | | Approx. 54g (approx. 42g) | | PRW: Approx. 70g (approx. 58g) PRWL: Approx. 90g (approx. 78g) | | PRW: Approx. 134g (approx. 122g) PRWL: Approx. 195g (approx. 158g) | |

● AC 2-wire type

| Model | PRW12-2AO PRW12-2AC | PRW12-4AO PRW12-4AC | PRW18-5AO PRW18-5AC PRWL18-5AO PRWL18-5AC | PRW18-8AO PRW18-8AC PRWL18-8AO PRWL18-8AC | PRW30-10AO PRW30-10AC PRWL30-10AO PRWL30-10AC | PRW30-15AO PRW30-15AC PRWL30-15AO PRWL30-15AC |
|----------------------------------|---|------------------------|---|--|---|--|
| Sensing distance | 2mm | 4mm | 5mm | 8mm | 10mm | 15mm |
| Hysteresis | Max. 10% of sensing distance | | | | | |
| Standard sensing target | 12×12×1mm (iron) | | 18×18×1mm (iron) | 25×25×1mm (iron) | 30×30×1mm (iron) | 45×45×1mm (iron) |
| Setting distance | 0 to 1.4mm | 0 to 2.8mm | 0 to 3.5mm | 0 to 5.6mm | 0 to 7mm | 0 to 10.5mm |
| Power supply (operation voltage) | 100-240VAC (85-264VAC) | | | | | |
| Leakage current | Max. 2.5mA | | | | | |
| Response frequency ^{*1} | 20Hz | | | | | |
| Residual voltage | Max. 10V | | | | | |
| Affection by Temp. | Max. ±10% for sensing distance at ambient temperature 20°C | | | | | |
| Control output | 5 to 150mA | | | 5 to 200mA | | |
| Insulation resistance | Over 50MΩ (at 500VDC megger) | | | | | |
| Dielectric strength | 2,500VAC 50/60Hz for 1minute | | | | | |
| Vibration | 1mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours | | | | | |
| Shock | 500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times | | | | | |
| Indicator | Operation indicator: Red LED | | | | | |
| Environment | Ambient temperature: -25 to 70°C, storage: -30 to 80°C Ambient humidity: 35 to 95%RH, storage: 35 to 95%RH | | | | | |
| Protection circuit | Surge protection circuit | | | | | |
| Protection structure | IP67 (IEC standard) | | | | | |
| Material | Case/Nut: Nickel plated brass, Washer: Nickel plated iron, Sensing surface: Heat-resistant Acrylonitrile butadiene styrene, Standard cable (black): Polyvinyl chloride (PVC) | | | | | |
| Cable | Ø4mm, 2-wire, 300mm, M12 connector | | | Ø5mm, 2-wire, 300mm, M12 connector | | |
| Approval | CE | | | | | |
| Weight ^{*2} | Approx. 54g (approx. 42g) | | PRW: Approx. 78g (approx. 66g) PRWL: Approx. 90g (approx. 78g) | | PRW: Approx. 134g (approx. 122g) PRWL: Approx. 195g (approx. 158g) | |

*1: The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

*2: The weight includes packaging. The weight in parenthesis is for unit only.

* The last 'V' of model name is for the model with oil-resistance reinforced cable. * Environment resistance is rated at no freezing or condensation.

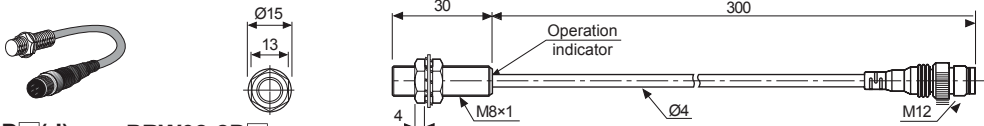
| |
|---|
| (A) Photoelectric Sensors |
| (B) Fiber Optic Sensors |
| (C) Door/Area Sensors |
| (D) Proximity Sensors |
| (E) Pressure Sensors |
| (F) Rotary Encoders |
| (G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets |
| (H) Temperature Controllers |
| (I) SSRs / Power Controllers |
| (J) Counters |
| (K) Timers |
| (L) Panel Meters |
| (M) Tacho / Speed / Pulse Meters |
| (N) Display Units |
| (O) Sensor Controllers |
| (P) Switching Mode Power Supplies |
| (Q) Stepper Motors & Drivers & Controllers |
| (R) Graphic/ Logic Panels |
| (S) Field Network Devices |
| (T) Software |

PRW Series

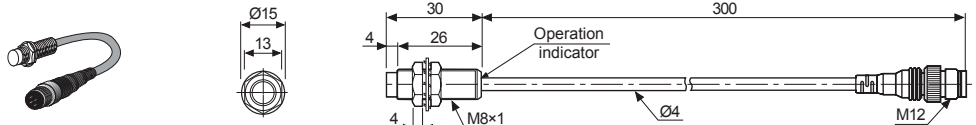
■ Dimensions

(unit: mm)

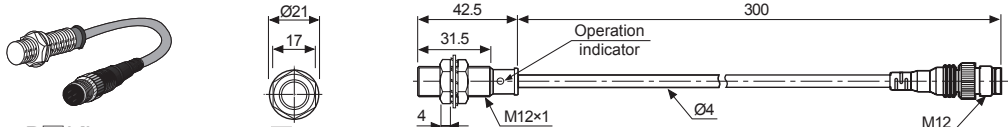
- PRWT08-1.5D□(-I) • PRW08-1.5D□



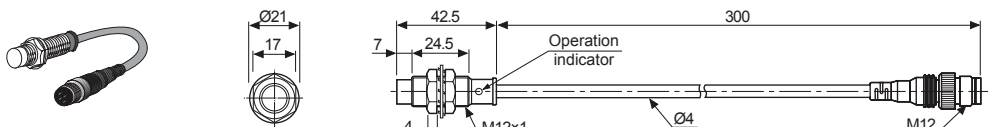
- PRWT08-2D□(-I) • PRW08-2D□



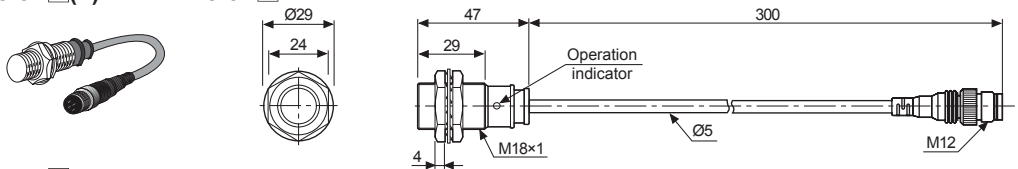
- PRWT12-2D□(-I) • PRW12-2D□



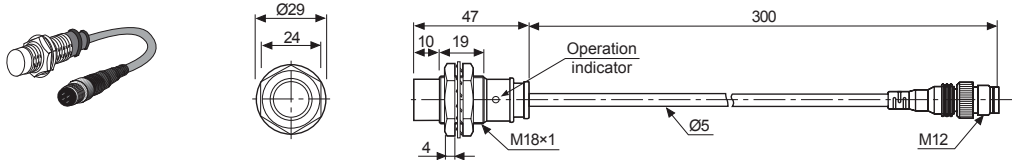
- PRWT12-4D□(-I) • PRW12-4D□



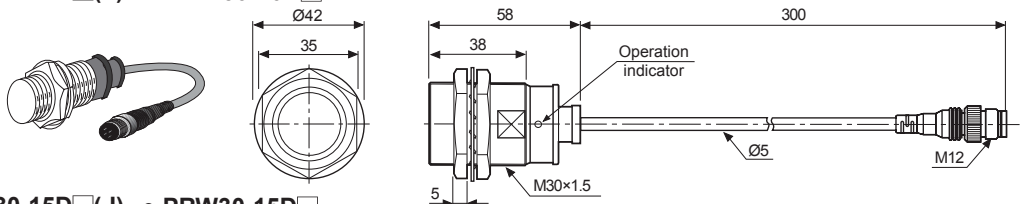
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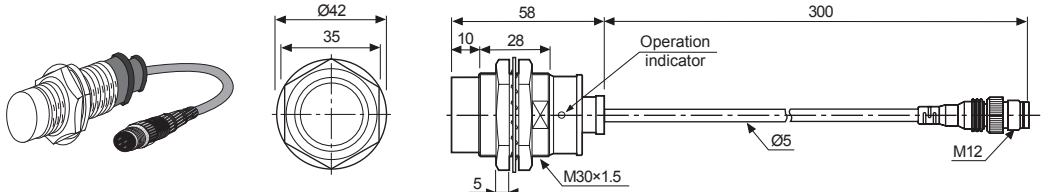
- PRWT18-8D□(-I) • PRW18-8D□



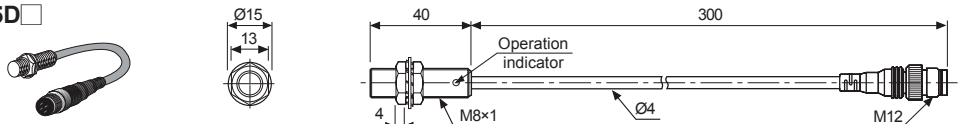
- PRWT30-10D□(-I) • PRW30-10D□



- PRWT30-15D□(-I) • PRW30-15D□



- PRWL08-1.5D□

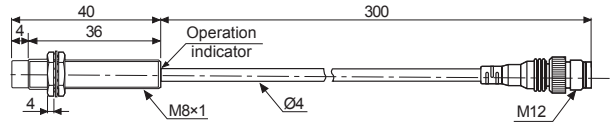
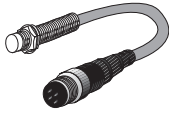


Cylindrical Cable Connector Type

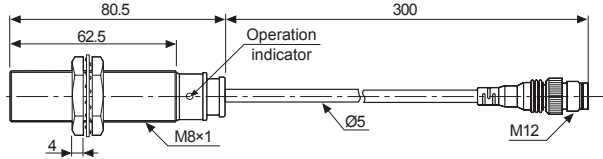
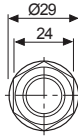
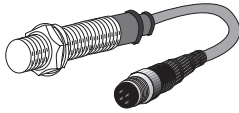
■ Dimensions

(unit: mm)

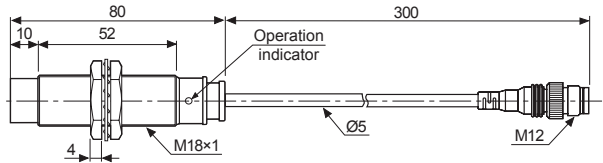
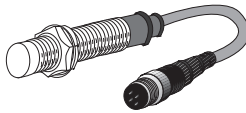
● PRWL08-2D



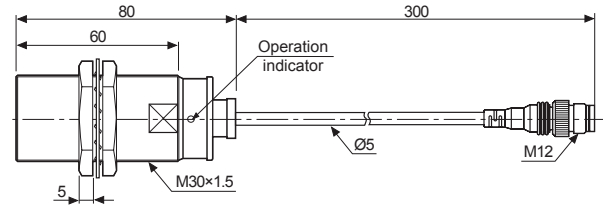
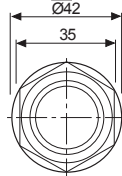
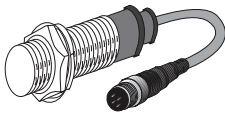
● PRWL18-5D ● PRWL18-5A



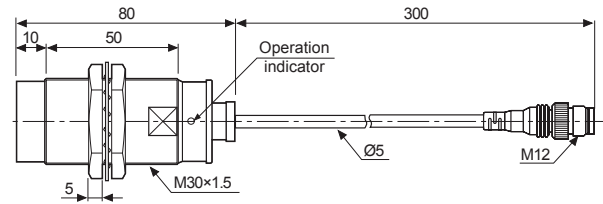
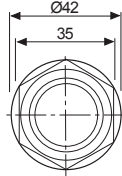
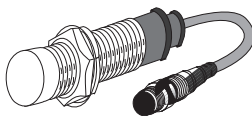
● PRWL18-8D ● PRWL18-8A



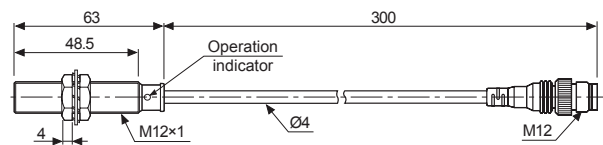
● PRWL30-10D ● PRWL30-10A



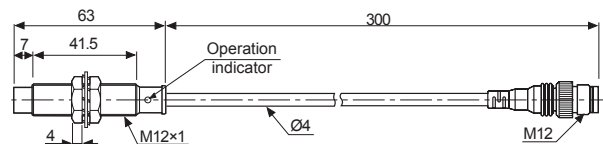
● PRWL30-15D ● PRWL30-15A



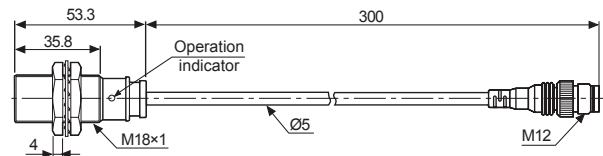
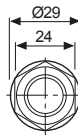
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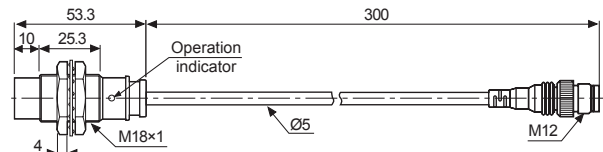
● PRW12-4A



● PRW18-5A



● PRW18-8A



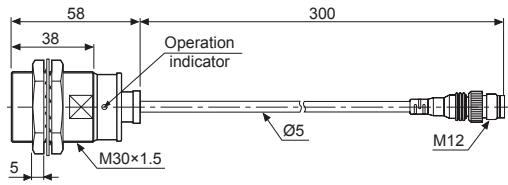
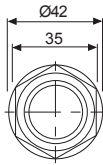
| | |
|-----|---|
| (A) | Photoelectric Sensors |
| (B) | Fiber Optic Sensors |
| (C) | Door/Area Sensors |
| (D) | Proximity Sensors |
| (E) | Pressure Sensors |
| (F) | Rotary Encoders |
| (G) | Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets |
| (H) | Temperature Controllers |
| (I) | SSRs / Power Controllers |
| (J) | Counters |
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| (L) | Panel Meters |
| (M) | Tacho / Speed / Pulse Meters |
| (N) | Display Units |
| (O) | Sensor Controllers |
| (P) | Switching Mode Power Supplies |
| (Q) | Stepper Motors & Drivers & Controllers |
| (R) | Graphic/ Logic Panels |
| (S) | Field Network Devices |
| (T) | Software |

PRW Series

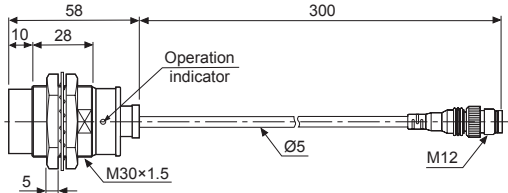
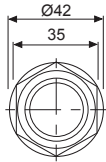
(unit:mm)

Dimensions

PRW30-10A

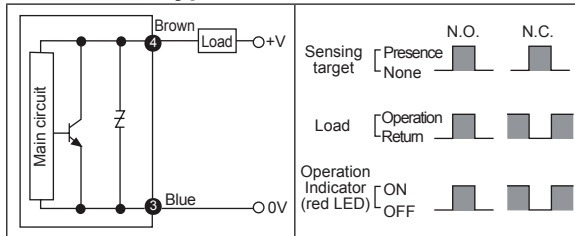


PRW30-15A

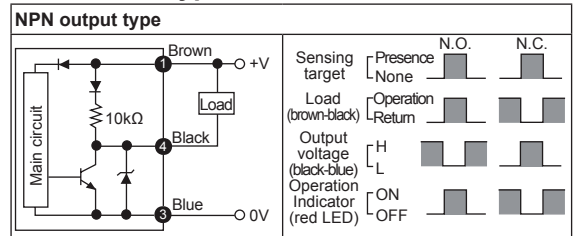


Control Output Diagram and Load Operation

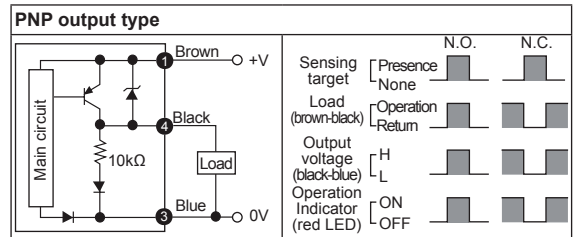
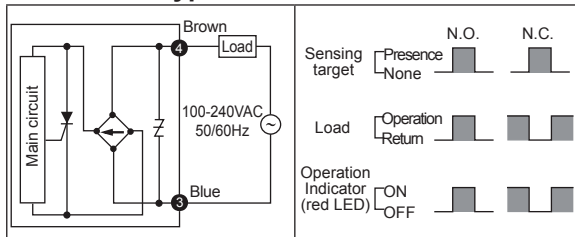
DC 2-wire type



DC 3-wire type



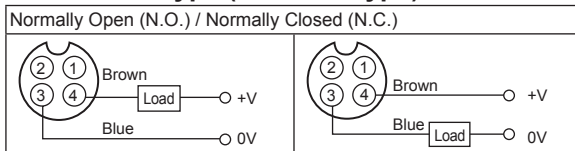
AC 2-wire type



※The number in a circle is pin no. of connector.

Wiring Diagram

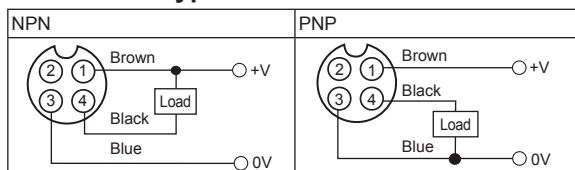
DC 2-wire type (standard type)



※Pin ①, ② are not used terminals.

※When using DC 3-wire type of connector cable, black (12-24VDC) and blue (0V) cables can be used.

DC 3-wire type

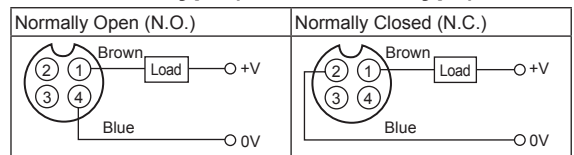


※Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N·m)

※Please fasten the vibration part with PTFE tape.

※Refer to the G-6 for IEC standard connector cables and specifications.

DC 2-wire type (IEC standard type)



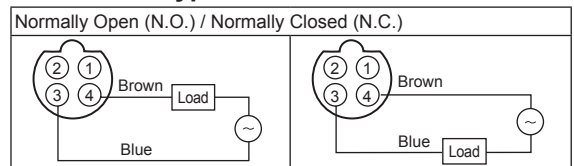
※②, ③ of N.O. type and ③, ④ of N.C. type are not used terminals.

※The type, pin arrangement of connector based upon IEC standard is being developed.

※Please put "I" behind of standard type for purchasing IEC standard product. E.g.)PRWT12-4DO-I

※Please put "I" behind of model name for selecting proximity sensor by IEC standard. E.g.)CID2-2-I, CLD2-2-I

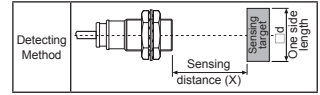
AC 2-wire type



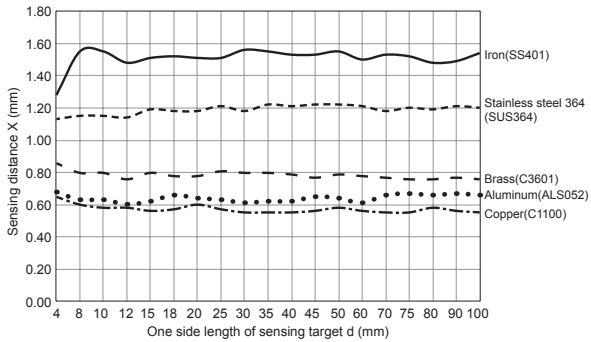
※In case of AC switching type, ② and ③, ① and ④ are connected to each other inside.

Cylindrical Cable Connector Type

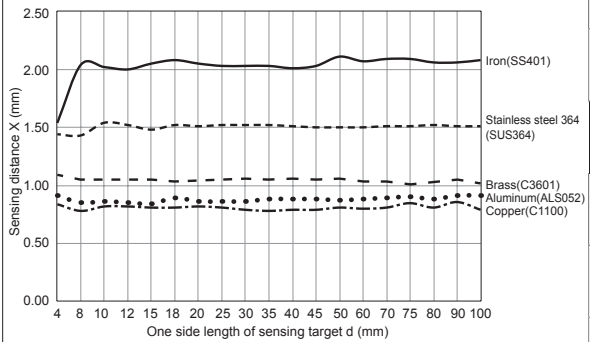
■ Sensing Distance Feature Data by Target Material and Size



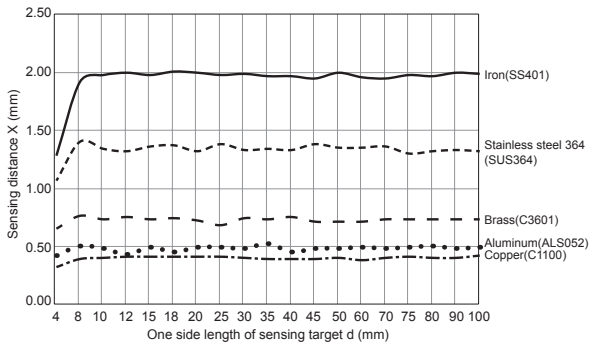
● PRWT08-1.5D



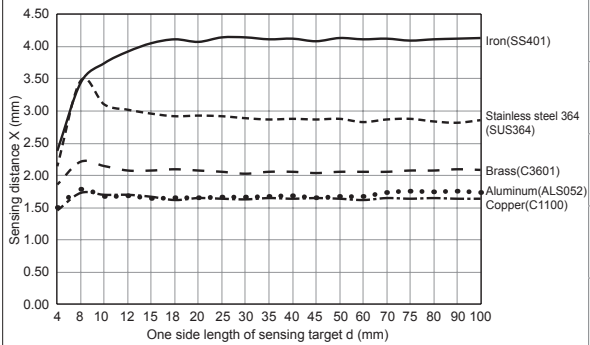
● PRWT08-2D



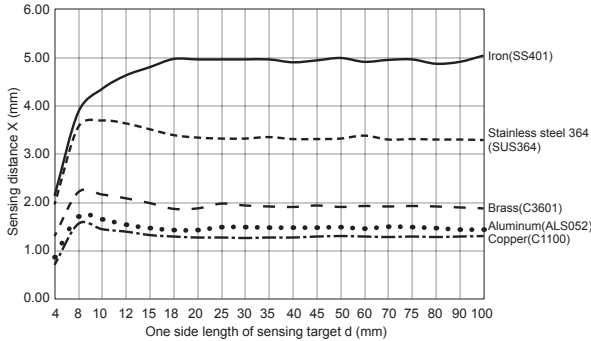
● PRWT12-2D, PRW12-2A



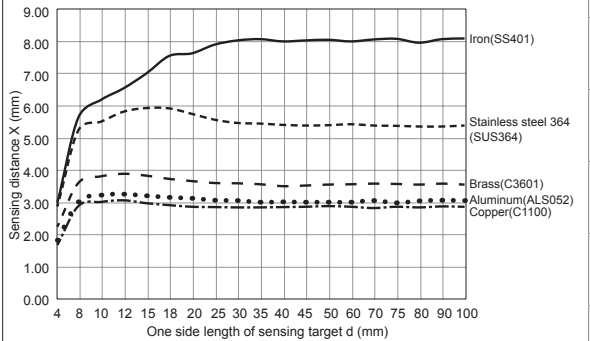
● PRWT12-4D, PRW12-4A



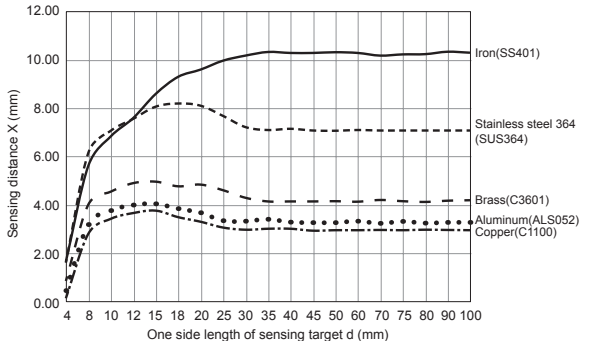
● PRWT18-5D, PRW(L)18-5A



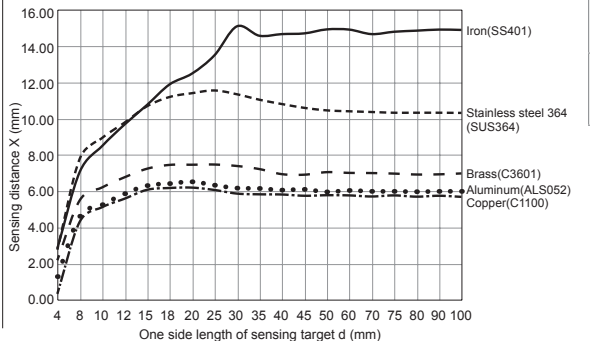
● PRWT18-8D, PRW(L)18-8A



● PRWT30-10D, PRW(L)30-10A



● PRWT30-15D, PRW(L)30-15A



(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/
Connector Cables/
Sensor Distribution
Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

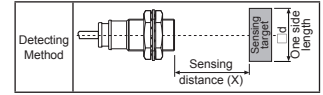
(R) Graphic/ Logic Panels

(S) Field Network Devices

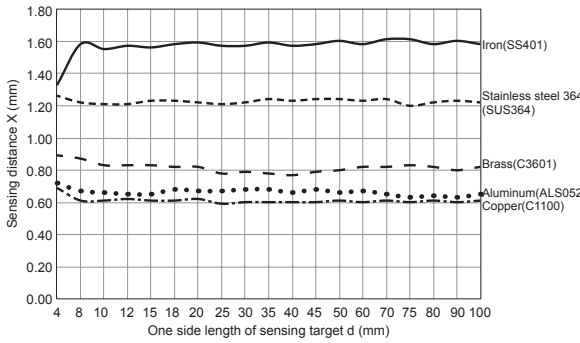
(T) Software

PRW Series

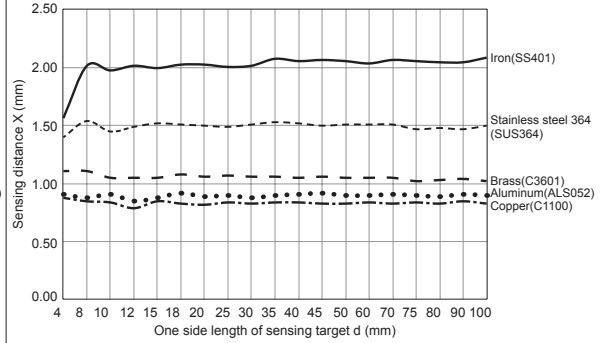
■ Sensing Distance Feature Data by Target Material and Size



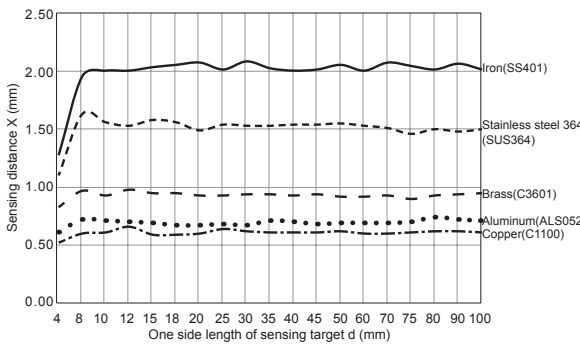
● PRW(L)08-1.5D



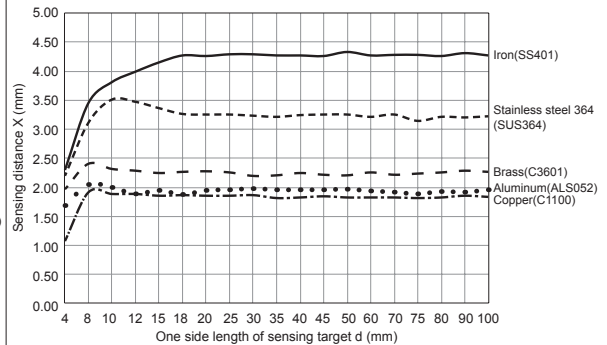
● PRW(L)08-2D



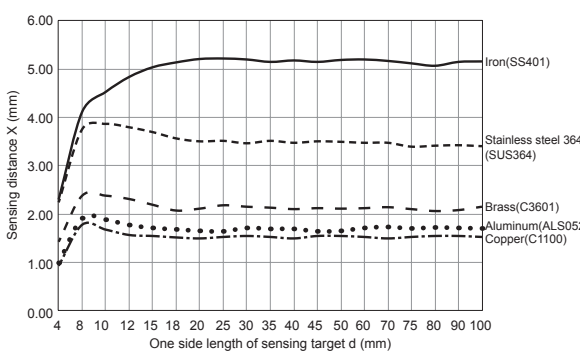
● PRW12-2D



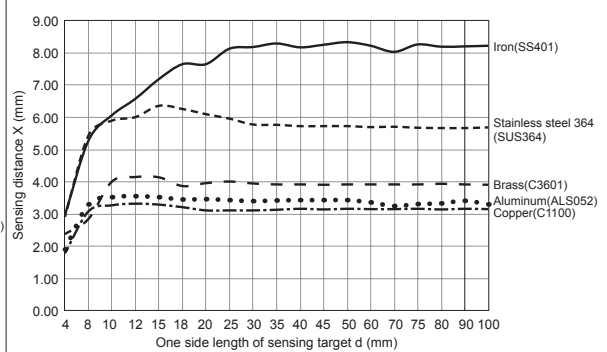
● PRW12-4D



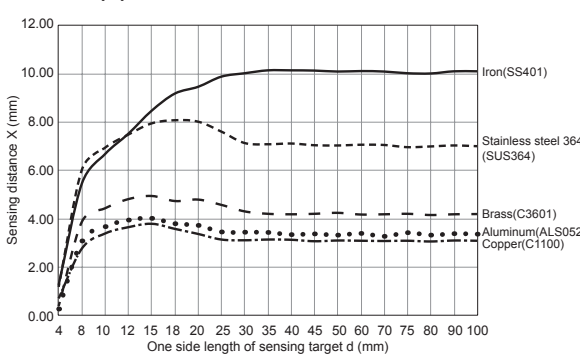
● PRW(L)18-5D



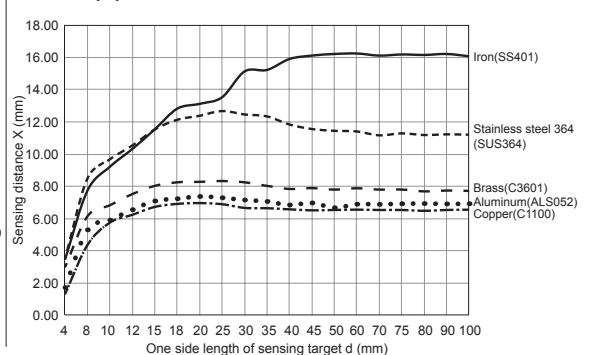
● PRW(L)18-8D



● PRW(L)30-10D

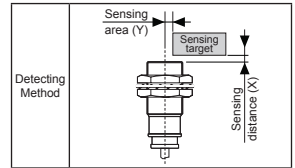


● PRW(L)30-15D



Cylindrical Cable Connector Type

■ Sensing Distance Feature Data by Parallel (Left/Right) Movement



(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/
Connector Cables/
Sensor Distribution
Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

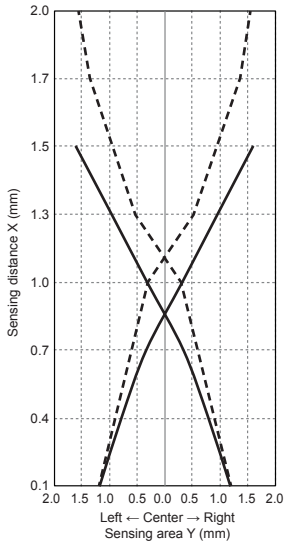
(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

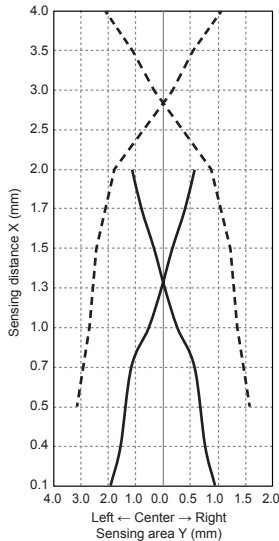
(T) Software

● PRWT08-1.5D□/2D□



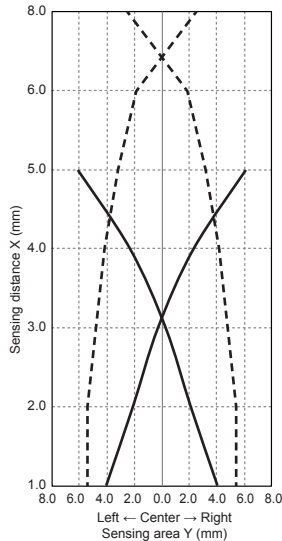
| | |
|-------|--------------|
| — | PRWT08-1.5D□ |
| - - - | PRWT08-2D□ |

● PRWT12-2D□/4D□, PRWT12-2A□/4A□



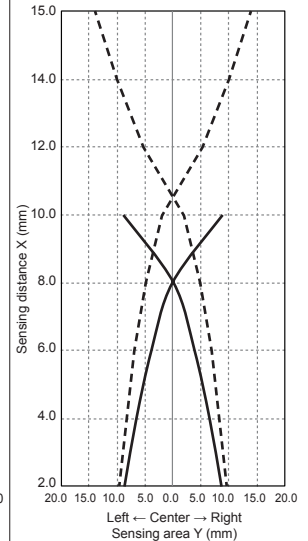
| | |
|-------|---------------------------|
| — | PRWT12-2D□, PRWT12-2A□ |
| - - - | PRWT12-4D□, PRWT12-4A□ |

● PRWT18-5D□/8D□, PRW(L)18-5A□/8A□



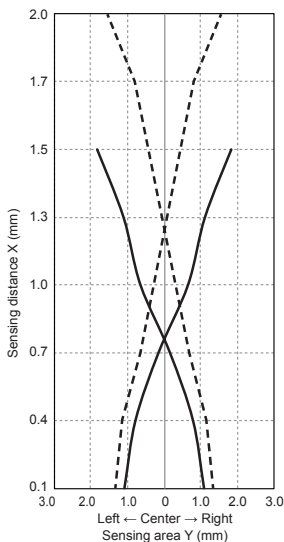
| | |
|-------|-----------------------------|
| — | PRWT18-5D□, PRW(L)18-5A□ |
| - - - | PRWT18-8D□, PRW(L)18-8A□ |

● PRWT30-10D□/15D□, PRW(L)30-10A□/15A□



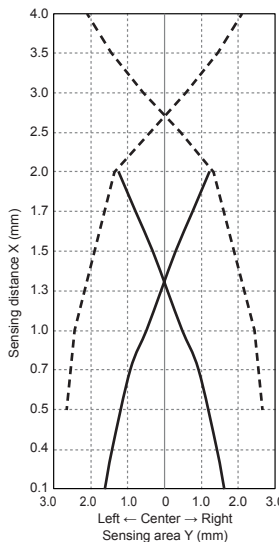
| | |
|-------|-------------------------------|
| — | PRWT30-10D□, PRW(L)30-10A□ |
| - - - | PRWT30-15D□, PRW(L)30-15A□ |

● PRW(L)08-1.5D□/2D□



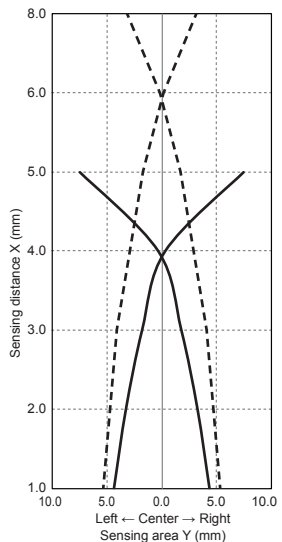
| | |
|-------|----------------|
| — | PRW(L)08-1.5D□ |
| - - - | PRW(L)08-2D□ |

● PRW12-2D□/4D□



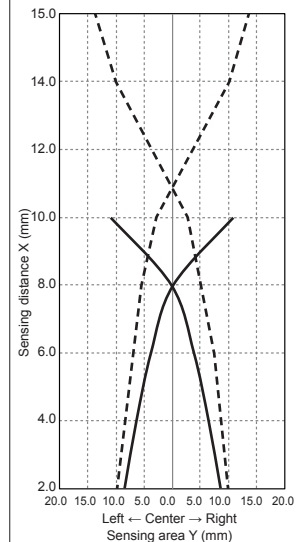
| | |
|-------|-----------|
| — | PRW12-2D□ |
| - - - | PRW12-4D□ |

● PRW(L)18-5D□/8D□



| | |
|-------|--------------|
| — | PRW(L)18-5D□ |
| - - - | PRW(L)18-8D□ |

● PRW(L)30-10D□/15D□

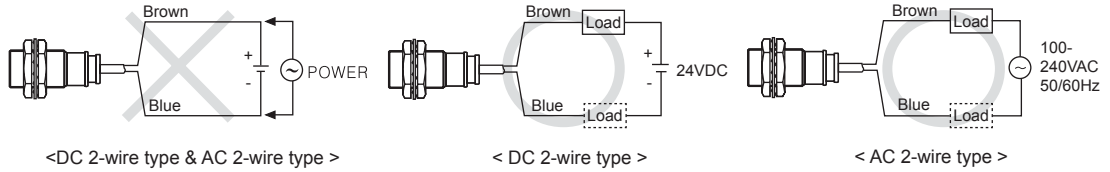


| | |
|-------|---------------|
| — | PRW(L)30-10D□ |
| - - - | PRW(L)30-15D□ |

PRW Series

■ Proper Usage

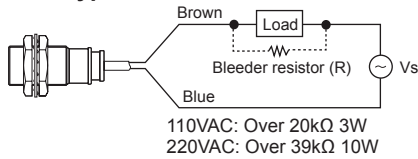
◎ Load connections



When using DC or AC 2-wire type proximity sensor, the load must be connected otherwise internal components may be damaged. The load can be connected to either wire.

◎ In case of the load current is small

● AC 2-wire type



It may cause return failure of load by residual voltage.

If the load current is under 5mA, please make sure the residual voltage is less than the return voltage of the load by connecting a bleeder resistor in parallel with the load as shown in the diagram.

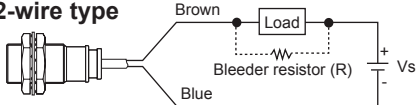
$$R \leq \frac{V_s}{I} (\text{k}\Omega) \quad P > \frac{V_s^2}{R} (\text{W})$$

[I: Action current of load, R: Bleeder resistance, P: Permissible power]

Please make the current on proximity sensor smaller than the return current of load by connecting a bleeder resistor in parallel.

※ W value of Bleeder resistor should be bigger for proper heat dissipation.

● DC 2-wire type

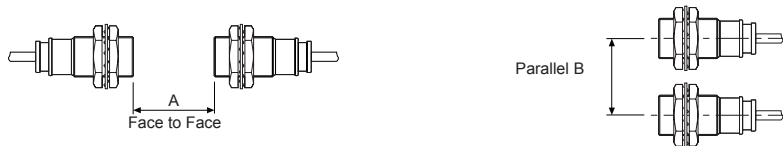


$$R \leq \frac{V_s}{I_{\text{off}}} (\text{k}\Omega) \quad P > \frac{V_s^2}{R} (\text{W})$$

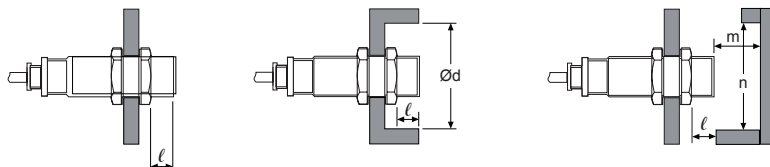
[Vs: Power supply, I_{off}: Min. action current of proximity sensor, I_{off}: Return current of load, P: Number of Bleeder resistance watt]

◎ Mutual-interference & Influence by surrounding metals

When several proximity sensors are mounted close to one another a malfunction of the may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



When sensors are mounted on metallic panel, it must be prevented sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



(unit: mm)

| Item | Model | PRW(L)08-1.5D□ | PRW(L)08-2D□ | PRWT12-2D□ | PRWT12-4D□ | PRWT18-5D□ | PRWT18-8D□ | PRWT30-10D□ | PRWT30-15D□ |
|------|-------|----------------|--------------|------------|------------|--------------|--------------|---------------|---------------|
| | | PRWT08-1.5D□ | PRWT08-2D□ | PRWT12-2A□ | PRWT12-4A□ | PRW(L)18-5D□ | PRW(L)18-8D□ | PRW(L)30-10D□ | PRW(L)30-15D□ |
| A | | 9 | 12 | 12 | 24 | 30 | 48 | 60 | 90 |
| B | | 16 | 24 | 24 | 36 | 36 | 54 | 60 | 90 |
| ℓ | | 0 | 8 | 0 | 11 | 0 | 14 | 0 | 15 |
| Ød | | 8 | 24 | 12 | 36 | 18 | 54 | 30 | 90 |
| m | | 4.5 | 6 | 6 | 12 | 15 | 24 | 30 | 45 |
| n | | 12 | 24 | 18 | 36 | 27 | 54 | 45 | 90 |