## Cylindrical Inductive **Long-Distance**

**Proximity Sensors** (IO-Link)

## **PRD Series**



## **Features**

- · Reduced installation work by identifying object IDs
- · Malfunction and damage prevention through status monitoring
- Shortest time recovery through abnormal
- · Mode indicator for check status
- · IO-Link mode: Communication indicator (flashing green), operation indicator (orange), abnormal detect indicator (cross-flashing green, orange)
- · SIO mode: Operation indicator (orange), stable indicator (green), abnormal detect indicator (cross-flashing green, orange)
- · IP67 Protection rating (IEC standard)

## **Specifications**

Installation Model	Flush type			
	PRD□12-4D-□-IL2	PRD□18-7D-□-IL2	PRD□30-15D-□-IL2	
DIA. of sensing side	Ø 12 mm	Ø 18 mm	Ø 30 mm	
Sensing distance	4 mm	7 mm	15 mm	
Setting distance	0 to 2.8 mm	0 to 4.9 mm	0 to 10.5 mm	
Hysteresis	≤ 10 % of sensing distance			
Standard sensing target: iron	12 × 12 × 1 mm	20 × 20 × 1 mm	45 × 45 × 1 mm	
Response frequency 01)	500 Hz	250 Hz	100 Hz	
Affection by temperature	s ± 10 % for sensing distance at ambient temperature 20 °C			
Indicator <sup>02)</sup>	IO-Link mode, SIO mode			
IO-Link mode	Communication indicator (flashing green), operation indicator (orange), Abnormal detect indicator (cross-flashing green, orange)			
SIO mode	Operation indicator (orange), stable indicator (green), Abnormal detect indicator (cross-flashing green, orange)			
Approval	C€ c⊕aum @ IO-Link	C€ (No uno 2 IO-Link	C€ c®auma <b>⊘ IO</b> -Link	

- 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. In case of SIO mode, use the device within the range where the stable indicator (green) is ON. If the sensing target is in the too close detection distance, the stable indicator turns OFF, but it is in a stable detection state. In case of IO-Link mode, use the device within the range where unstable detection (ByteO\_bit6) turns 0. If the sensing target is in the too close detection distance, the too close detection (ByteO\_bit5) is 1, but it is a stable detection state.

Installation	Non-flush type				
Model	PRD□12-8D-□-IL2	PRD□18-14D-□-IL2	PRD□30-25D-□-IL2		
DIA. of sensing side	Ø 12 mm	Ø 18 mm	Ø 30 mm		
Sensing distance	8 mm	14 mm	25 mm		
Setting distance	0 to 5.6 mm	0 to 9.8 mm	0 to 17.5 mm		
Hysteresis	≤ 10 % of sensing distance				
Standard sensing target: iron	25 × 25 × 1 mm	40 × 40 × 1 mm	75 × 75 × 1 mm		
Response frequency 01)	400 Hz	200 Hz	100 Hz		
Affection by temperature	$\leq$ ± 10 % for sensing distance at ambient temperature 20 °C				
Indicator <sup>02)</sup>	IO-Link mode, SIO mode				
IO-Link mode	Communication indicator (flashing green), operation indicator (orange), Abnormal detect indicator (cross-flashing green, orange)				
SIO mode	Operation indicator (orange), stable indicator (green), Abnormal detect indicator (cross-flashing green, orange)				
Approval	C€ (®) st uses <b>② IO</b> -Link	C€ (®) o us to <b>② IO</b> -Link	C€ (®) or Link		

- O1) 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.
  O2) In case of SIO mode, use the device within the range where the stable indicator (green) is ON.
  If the sensing target is in the too close detection distance, the stable indicator turns OFF, but it is in a stable detection state. In case of IO-Link mode, use the device within the range where unstable detection (ByteO\_bit6) turns 0.
  If the sensing target is in the too close detection distance, the too close detection (ByteO\_bit5) is 1, but it is a stable detection state.

Unit weight (package)	Ø 12 mm	Ø 18 mm	Ø 30 mm
Cable	≈ 62 g (≈ 74 g)	≈ 97 g (≈ 115 g)	≈ 143 g (≈ 180 g)
Cable connector	≈ 37 g (≈ 67 g)	≈ 62 g (≈ 80 g)	≈ 108 g (≈ 145 g)
Connector	≈ 20g (≈ 49 g)	≈ 41 g (≈ 81 g)	≈ 138 g (≈ 197 g)



View product detail