14 SENSOR INDUCTIVE PROXIMITY **CH 18DP**



DC 3-wire type

Model		PR08-1.5DP2 PRL08-1.5DN PRL08-1.5DP PRL08-1.5DN2 PRL08-1.5DP2	PRL08-2DP2	PRS12-2DP2	PR12-4DN PR12-4DP PR12-4DN2 PR12-4DP2 PRS12-4DN PRS12-4DP PRS12-4DN2 PRS12-4DP2 PRL12-4DN PRL12-4DP	PR18-5DN PR18-5DP PR18-5DN2 PR18-5DP2 PR18-5DN-V PRL18-5DN PRL18-5DP PRL18-5DP2	PR18-8DN PR18-8DP PR18-8DN2 PR18-8DP2 PRL18-8DN PRL18-8DP PRL18-8DP2 PRL18-8DP2	PRL30-10DP2	PR30-15DN PR30-15DP PR30-15DN2 PR30-15DP2 PRL30-15DN PRL30-15DP PRL30-15DP2
	distance	1.5mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
Hysteresis Standard sensing target		Max. 10% of sensing distant 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 1.4mm	0 to 2.8mm	0 to 3.5mm	0 to 5.6mm	0 to 7mm	0 to 10.5mm
Power s (Operati		12-24VDC (10-30VDC)							
Current	consumption	Max. 10mA							
Response frequency*1		1.5kHz	1kHz	1.5kHz	500Hz		350Hz	400Hz	200Hz
Residual voltage		Max. 2.0V Max. 1.5V							
Affection by Temp.		Max. ±10% for sensing distance at ambient temperature 20°C, PR08 Series: Max. ±20%							
Control output		Max. 200mA							
Insulation resistance		Min. 50MΩ (at 500VDC megger)							
Dielectric strength		1500VAC 50/60Hz for 1minute							
Vibration		1mm amplitude at frequency of 10 to 55Hz (for 1 min) in each of X, Y, Z directions for 2 hours							
Shock		500m/s² (approx. 50G) in X, Y, Z direction for 3 times							
Indicator		Operation indicator: Red LED							
Environ-	Ambient temperature	-25 to 70°C storage: -30 to 80°C							
ment	Ambient humidity	30 to 95%RH, storage: 35 to 95%RH							
Protection	on circuit	Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit							
Protection structure		IP67 (IEC standard)							
Material		Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable (Black): Polyvinyl chloride (PVC), Oil resistant cable (Gray): Oil resistant Polyvinyl chloride (PVC)							
Cable		Ø3.5mm, 3-wire, 2m (AWG24, Core diameter: 0.08mm, Number of cores: 40, Insulator diameter: Ø1.25) AWG22, Core diameter: 0.08mm, Number of cores: 60, Insulator diameter: Ø1.25)						Ø1.25)	
Approval		C€							
Weight ^{∞2}		PR: Approx. 64g (PRL: Approx. 66g			g (approx. 72g) 2g (approx. 70g) 8g (approx. 76g)		g (approx. 110g) 2g (approx. 130g)	PR: Approx. 2079 PRL: Approx. 24	

X1: 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.

X2: The weight includes packaging. The weight in parentheses in for unit only.
 X Environment resistance is rated at no freezing or condensation.