

SENSIDO_ELECTRONICS

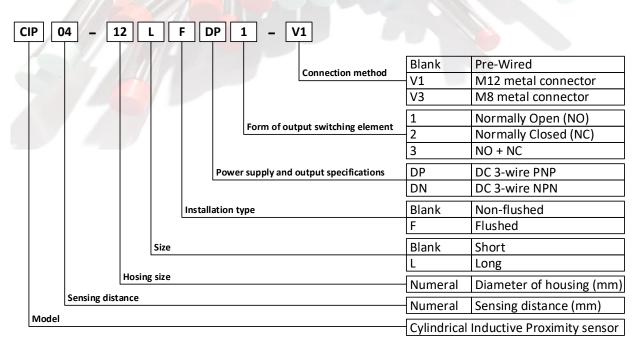
Inductive Proximity Sensor

Cylindrical Type



- Reliable detection of metal targets with high precision
- Robust design for harsh industrial environments
- Maintenance-free operation with long service life
- Suitable for diverse industrial and automation applications

Model Number Legend





Specifications

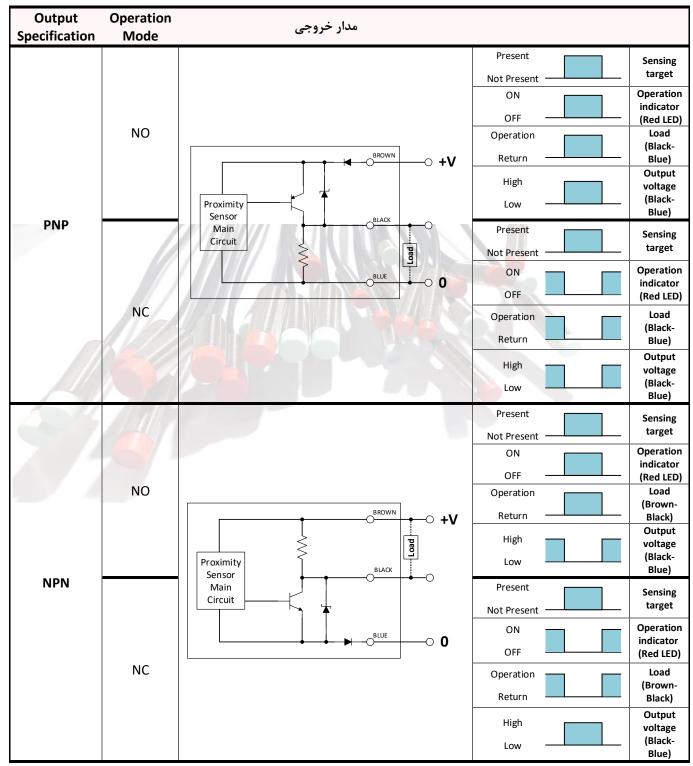
DC-3Wire

	Size	M12		M18				
Item								
	Model	CIP02-12FDP1 CIP02-12LFDP1 CIP02-12FDN1 CIP02-12LFDN1	CIP04-12DP1 CIP04-12LDP1 CIP04-12DN1 CIP04-12LDN1	CIP05-18FDP1 CIP05-18LFDP1 CIP05-18FDN1 CIP05-18LFDN1	CIP08-18DP1 CIP08-18LDP1 CIP08-18DN1 CIP08-18LDN1			
Sensing distance		2mm±10%	4mm±10%	5mm±10%	8mm±10%			
Setting distance		0 to 1.5mm	0 to 3.2mm	0 to 4mm	0 to 6.4mm			
Standard sensing target		Iron						
		12×12×1mm						
Hysteresis		Max. 10% of sensing distance						
Power supply Voltage*1		12-24VDC						
(Operating voltage)		10-30						
No load supply current		20mA						
Response Frequency*2		400Hz		320Hz				
Residual voltage		Max. 2V (at max. load)						
Output current		200mA						
Ambient temperature		-20 to 60°C						
Affection by Temp		±10% max. of sensing distance at 23°C in the temperature range of -20 to 60°C						
Ambient humidity		35 to 85%RH						
Indicator		Red LED						
Protection circuit		Reverse polarity protection, short-circuit protection, over-voltage						
		protection						
Protection		IP67						
Cable		3×0.25 mm ²						
Housing Material		Nickel plated Brass						
Weight	Standard	Approx. 71 g		Approx. 83 g				
	Long	Approx. 75g		Approx. 90g				
Accessories		Instruction manual, Clamping nuts, Toothed washer						



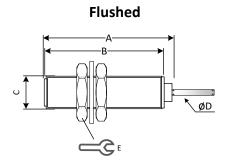
Circuit diagram

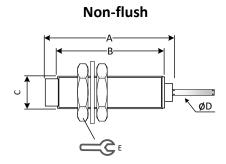
DC-3Wire





Dimensions





Туре	С	size	A (mm)	B (mm)	D (mm)	E
Flush	M12×1	Standard	48	44	4.7	17
		Long	60	56	4.7	17
	M18×1	Standard	53	49	4.7	24
		Long	65	61	4.7	24
Non-Flush	M12×1	Standard	48	39	4.7	17
		Long	60	51	4.7	17
	M18×1	<u>Standard</u>	53	39	4.7	24
		Long	65	51	4.7	24



Cautions

- This product has been developed / produced for industrial use only.
- Operate the sensor only within its specified ratings and limits.
- Make sure the power supply is off while wiring or repairing.
- Be sure to wire the sensor and load correctly.
- Altering or opening the sensor is strictly prohibited.
- Do not use water or solvents to clean the sensor. Use a dry cloth only.
- Do not use in flammable, humid, or unstable conditions.
- Keep away from high-voltage to avoid surge or inductive noise.
- Do not operate the sensor within the first 0.8 sec after powering on.
- Do not install or operate in proximity to equipment that emits strong electromagnetic fields or high-frequency noise.
- When installing near noise-generating devices (e.g., motors, relays, inverters), connect the frame ground (F.G.) terminal of the device to an actual ground, and consider adding surge suppressors (diodes or varistors).