PROXIMITY SENSORS & CONNECTORS

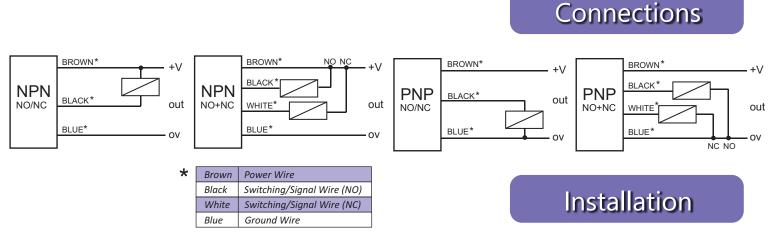
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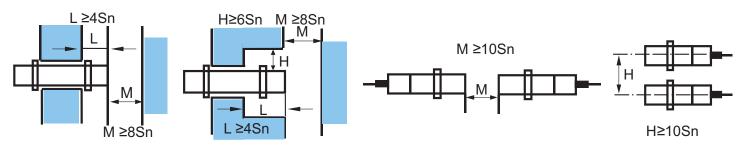


Features

- Inductive proximity sensor
- Style: cylinder shape (M12, M18, M30).
- With LED operation indicator, easily identifiable.
- Brass nickle plated, proof of oil, water acid, alkaline.
- Standard sensing object: inductive sensor: ferrous metals.
- Over-load and short circuit protection; polarity reversal protection.
- Rpm measuring in mechanism.
- Protection rate: IP67, water resistant.
- Shielded.
- Connection mode: M12 connector.
- DC 3-wire(10-30V DC).



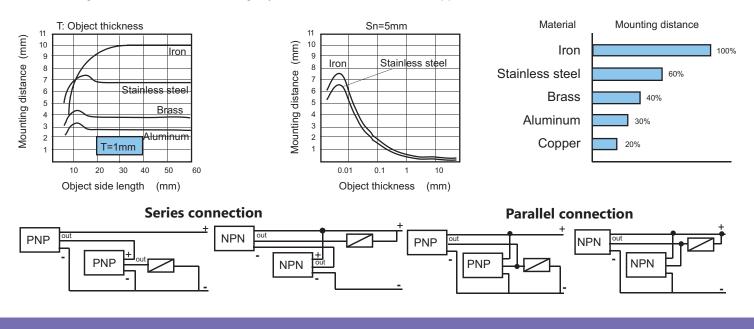
• When used in an area surrounded by metal or juxtaposed, install the sensor as follows. (Sn Sensing distance)



• IPS INDUCTIVE PROXIMITY APPLICATION DIRECTION

a. Mounting distance should be set equal 80% Sn.

b. Set mounting distance equals 50% Sn, when sensor applies in measuring mounting frequency or operating in high speed circumstance. c. Mounting distance varies with measuring object (iron, stainless steel, brass, copper, and aluminum).

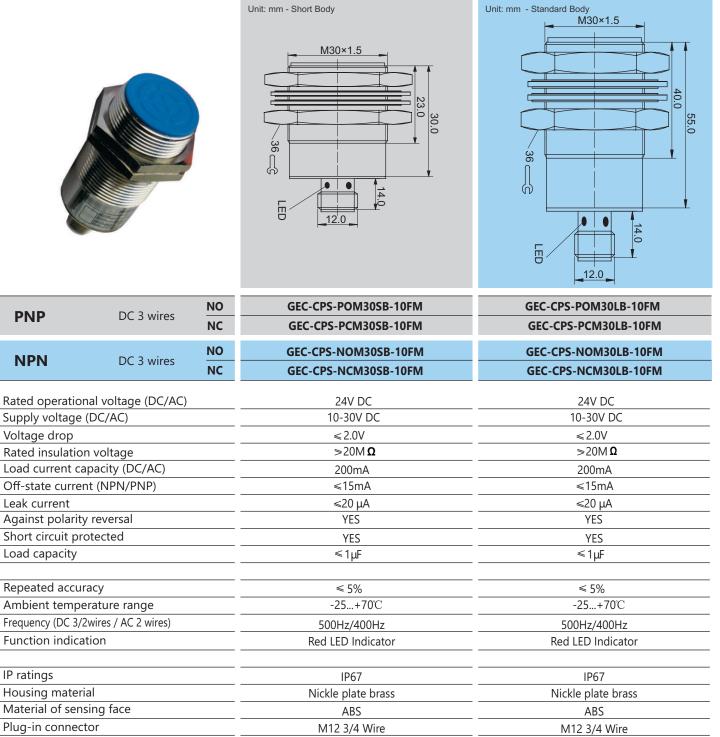


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Inductive Proximity Sensor

M30 Series

Dimension	M30 x1.5	M30 x1.5
Installation	Flush (shielded)	Flush (shielded)
Mounting distance Sn	10.0mm	10.0mm
Detect distance Sn	09.0mm	09.0mm



Approvals

Normally Open (NO):

When metal is within proximity to the sensor, the circuit will close and the indicating LED light will be ON.

Normally Closed (NC):

When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

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CE

Inductive Proximity Sensor

M18 Series

M18×1

Dimension	M18 x1	M18 x1
Installation	Flush (shielded)	Flush (shielded)
Mounting distance Sn	5.0mm	5.0mm
Detect distance Sn	04.0mm	04.0mm
	Unit: mm - Short Body	Unit: mm - Standard Body

M18×1

PNP	DC 3 wires	NO	GEC-CPS-POM18SB-5FM	GEC-CPS-POM18LB-5FM
F INF	Deswies	NC	GEC-CPS-PCM18SB-5FM	GEC-CPS-PCM18LB-5FM
NPN	DC 3 wires	NO	GEC-CPS-NOM18SB-5FM	GEC-CPS-NOM18LB-5FM
	Deswies	NC	GEC-CPS-NCM18SB-5FM	GEC-CPS-NCM18LB-5FM
Rated operatio	onal voltage (DC/AC)		24V DC	24V DC
Supply voltage	-		10-30V DC	10-30V DC
Voltage drop			≤2.0V	≤2.0V
	Rated insulation voltage		>20M Ω	≥20M Ω
	apacity (DC/AC)		200mA	200mA
Off-state current (NPN/PNP)		≤15mA	<10mA	
Leak current			≤20 μA	<20 μA
Against polarit			YES	YES
Short circuit p	rotected		YES	YES
Load capacity			≤1µF	≤1µF
Repeated accu	Iracy		≤ 5%	<u> </u>
Ambient temp			-25+70°C	
	/2wires / AC 2 wires)		700Hz/400Hz	700Hz/400Hz
Function indic			Red LED Indicator	Red LED Indicator
	IP ratings		IP67	IP67
Housing mater			Nickle plate brass	Nickle plate brass
Material of ser	-		ABS	ABS
Plug-in connee	ctor		M12 3/4 Wire	M12 3/4 Wire
Approvals			CE	CE

Normally Open (NO):

When metal is within proximity to the sensor, the circuit will close and the indicating LED light will be ON.

Normally Closed (NC):

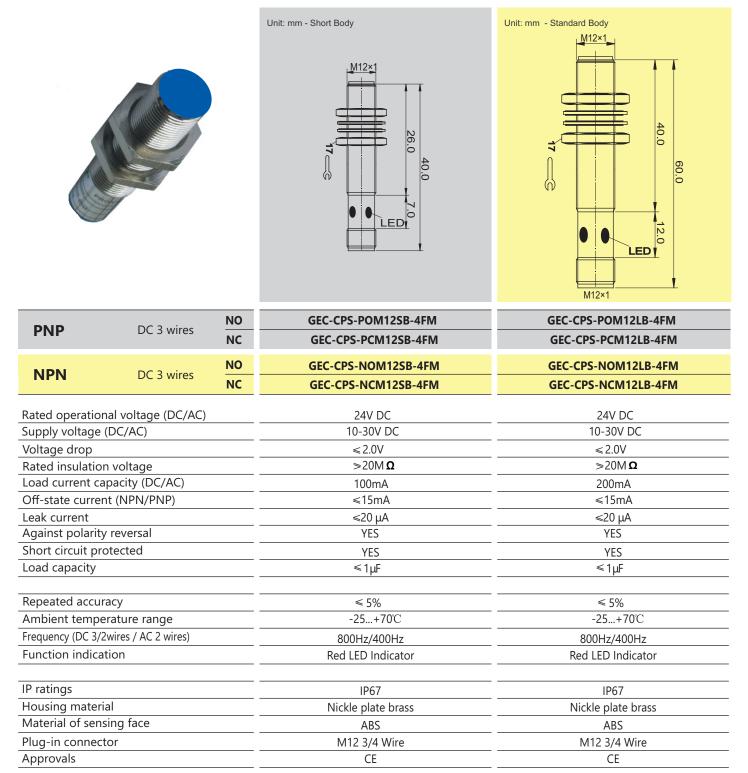
When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

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Inductive Proximity Sensor

M12 Series

Dimension	M12 x1	M12 x1
Installation	Flush (shielded)	Flush (shielded)
Mounting distance Sn	4.0mm	4.0mm
Detect distance Sn	03.6mm	03.6mm



Normally Open (NO):

When metal is within proximity to the sensor, the circuit will close and the indicating LED light will be ON.

Normally Closed (NC):

When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

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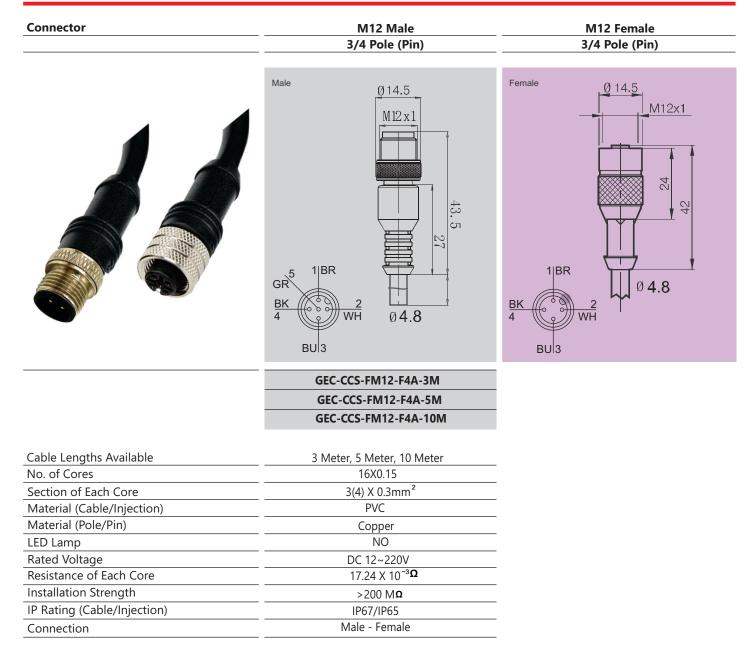
Plug-In Cables

Cables

Connector	M12 Straight 3/4 Pole (Pin)	M12 90°Angled 3/4 Pole (Pin)
	Female 014.5 M12x1 VIIII VIIIII VIII VIIII VIIII VIII VIII VIIII VIII VIIII VIII VIII VIII VIII VIIIII VIIII VIIII VIIII VIIII VIIIIII V	Female 014 M12x1 10 27 27 10 27 0 0 0 0 0 0 0 0 0 0
	GEC-CCS-M12-F4A-3M	GEC-CCA-M12-F4A-3M
	GEC-CCS-M12-F4A-5M	GEC-CCA-M12-F4A-5M
	GEC-CCS-M12-F4A-10M	GEC-CCA-M12-F4A-10M
Cable Lengths Available	3 Meter, 5 Meter, 10 Meter	3 Meter, 5 Meter, 10 Meter
No. of Cores	16X0.15	16X0.15
Section of Each Core	3(4) X 0.3mm ² PVC	3(4) X 0.3mm ² PVC
Material (Cable/Injection)		
Material (Pole/Pin)	<u>Copper</u> NO	Copper NO
LED Lamp		
Rated Voltage Resistance of Each Core	DC 12~220V 17.24 X 10 ^{~3} Ω	DC 12~220V 17.24 X 10 ^{~3} Ω
Installation Strength IP Rating (Cable/Injection)	>200 MΩ IP67/IP65	>200 M Q

Interconnecting Cables

Cables



Joining Connectors

Connectors

