

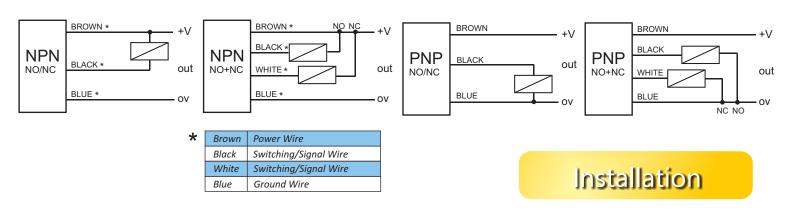
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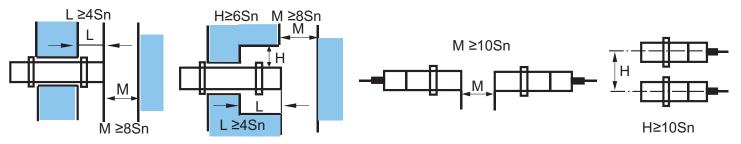
Features

- 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.
- RPM measuring in mechanism.
- Protection rate: IP67, water resistant.
- Shielded.
- Connection mode: M12 connector.
- DC 3-wire(10-30V DC).
- Over-load and short circuit protection; polarity reversal protection.

Connections



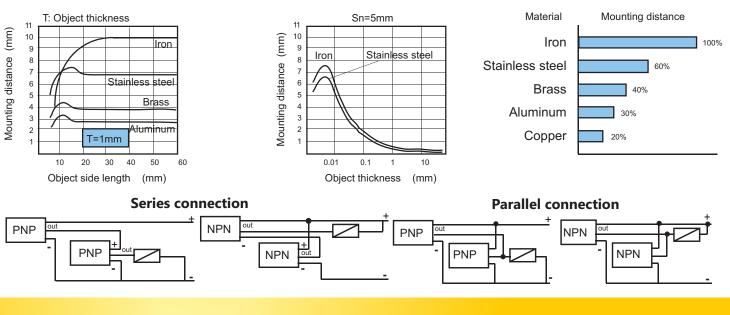
• When used in an area surrounded by metal or juxtaposed, install the sensor as follows. (Sn Sensing distance)



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).



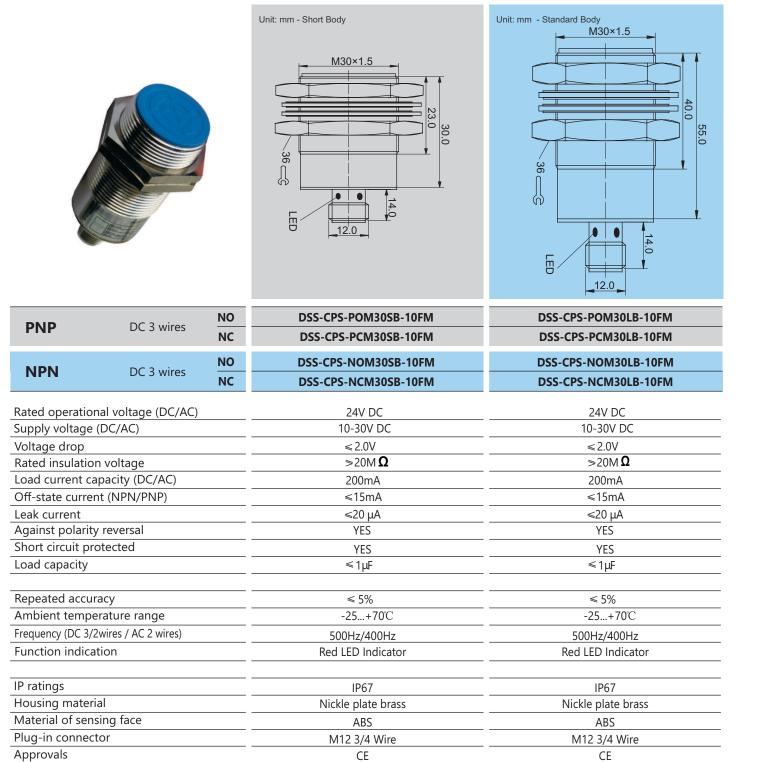
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P-2 (INTRO)

Inductive Proximity Sensor

M30 Series

M30 x1.5	M30 x1.5
Flush (shielded)	Flush (shielded)
10.0mm	10.0mm
09.0mm	09.0mm
	Flush (shielded) 10.0mm



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.

P-3 (M30)

Inductive Proximity Sensor

M18 Series

Dimension			M18 x1	M18 x1	
Installation Mounting distance Sn			Flush (shielded)	Flush (shielded) 5.0mm	
			5.0mm		
Detect distanc	e Sn		04.0mm	04.0mm	
		Unit: mm - Short Body	Unit: mm - Standard Body		
PNP	DC 3 wires	NO NC	DSS-CPS-POM18SB-5FM DSS-CPS-PCM18SB-5FM	DSS-CPS-POM18LB-5FM DSS-CPS-PCM18LB-5FM	
		NO	DSS-CPS-NOM18SB-5FM	DSS-CPS-NOM18LB-5FM	
NPN	DC 3 wires	NC	DSS-CPS-NCM18SB-5FM	DSS-CPS-NCM18LB-5FM	
				24/ DC	
	nal voltage (DC/AC)		24V DC 10-30V DC	24V DC 10-30V DC	
Supply voltage (DC/AC)					
Voltage drop			< <u>2.0V</u>	<2.0V	
Rated insulatio	0		≥20M Ω	≥20M Ω	
	apacity (DC/AC)		200mA	200mA	
Off-state curre	nt (NPN/PNP)		≤15mA	≤10mA	
Leak current			≤20 μA	≤20 μA	
Against polarity			YES	YES	
Short circuit pr	otected		YES	YES	
Load capacity			≤1μF	≤1µF	
Repeated accu	racy		≤ 5%	≤ 5%	
Ambient temperature range			-25+70°C	-25+70°C	
	2wires / AC 2 wires)		700Hz/400Hz	700Hz/400Hz	
Function indication			Red LED Indicator	Red LED Indicator	
P ratings	• •		IP67	IP67	
Housing material			Nickle plate brass	Nickle plate brass	
Material of sensing face			ABS	ABS	
Plug-in connector			M12 3/4 Wire	M12 3/4 Wire	
Approvals			CE	CE	
Normally Open (oor the a	insuit will close and the indicating LED light will be	ON	
When metal is wit Normally Closed		isor, the c	ircuit will close and the indicating LED light will be	01.	

P-4 (M18)

Inductive Proximity Sensor

M12 Series

Dimension		M12 x1 Flush (shielded) 4.0mm	M12 x1 Flush (shielded) 4.0mm	
Installation				
Mounting distance Sn Detect distance Sn			03.6mm	03.6mm
			Unit: mm - Short Body	Unit: mm - Standard Body
		NO	DSS-CPS-POM12SB-4FM	DSS-CPS-POM12LB-4FM
PNP	DC 3 wires	NC	DSS-CPS-PCM12SB-4FM	DSS-CPS-PCM12LB-4FM
NPN	DC 3 wires	NO	DSS-CPS-NOM12SB-4FM	DSS-CPS-NOM12LB-4FM
		NC	DSS-CPS-NCM12SB-4FM	DSS-CPS-NCM12LB-4FM
Rated operatio	nal voltage (DC/AC)		24V DC	24V DC
Supply voltage	-		10-30V DC	10-30V DC
			<u>≤2.0V</u>	<pre><2.0V</pre>
Voltage drop Rated insulation voltage			 ≥20M Ω	≥20M Ω
Load current capacity (DC/AC)			100mA	200mA
Off-state current (NPN/PNP)			≤15mA	200mA ≤15mA
· · · · ·				<u></u> <20 μA
Leak current Against polarity reversal			≤20 μA YES	YES
Short circuit protected			YES	
Load capacity			YES ≤1µF	YES ≪1μF
			<u>~</u> ıµr	~ 1µr
Repeated accuracy			 ≤ 5%	≤ 5%
Ambient temperature range			-25+70°C	-25+70°C
Frequency (DC 3/2wires / AC 2 wires)			800Hz/400Hz	800Hz/400Hz
Function indication			Red LED Indicator	Red LED Indicator
IP ratings			 IP67	IP67
Housing material			Nickle plate brass	Nickle plate brass
Material of sensing face			ABS	ABS
Plug-in connector			M12 3/4 Wire	M12 3/4 Wire
Approvals			CE	CE
Normally Open (NO):				

Normally Open (NO):

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

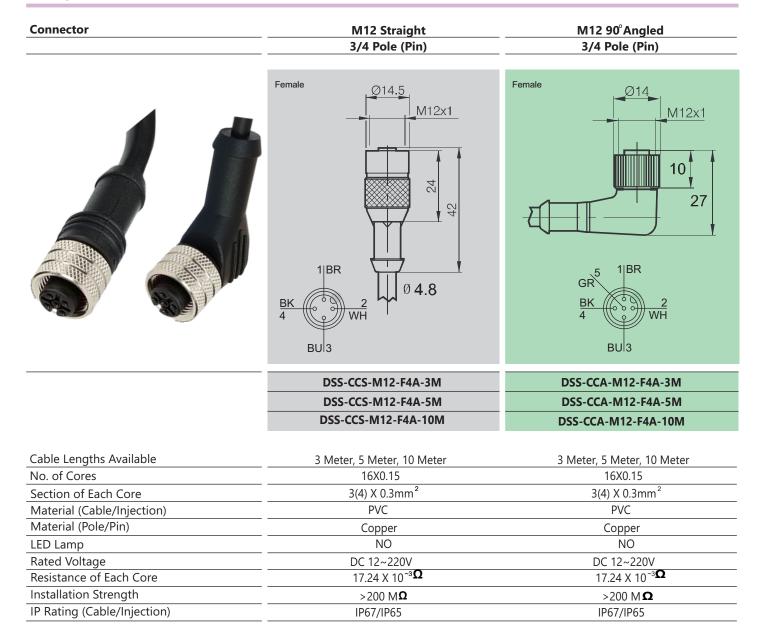
Normally Closed (NC):

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

P-5 (M12)

Plug-In Cables

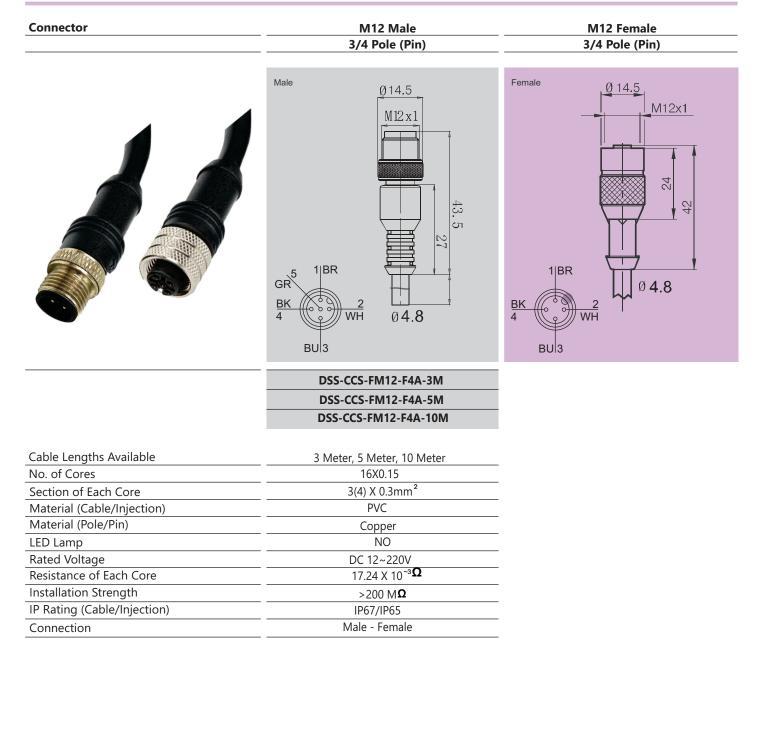
Cables



P-6 (PIC)

Interconnecting Cables

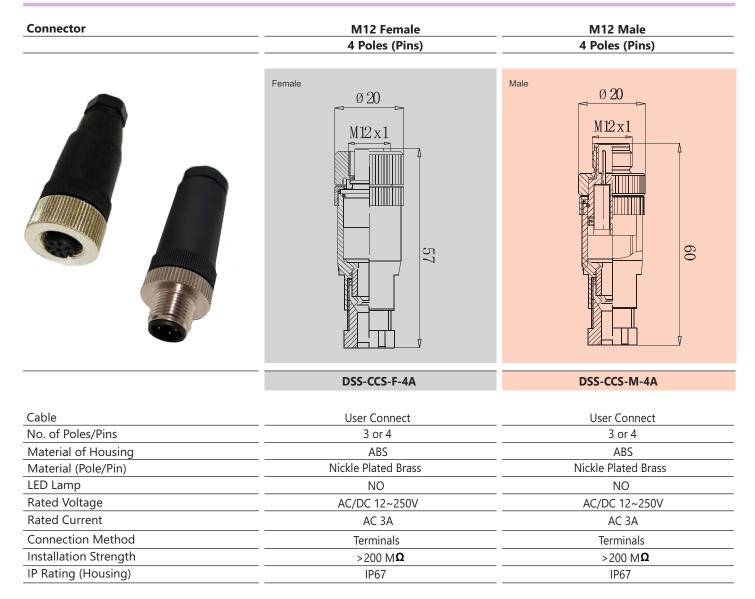
Cables



P-7 (ICC)

Joining Connectors

Connectors



P-8 (JC)