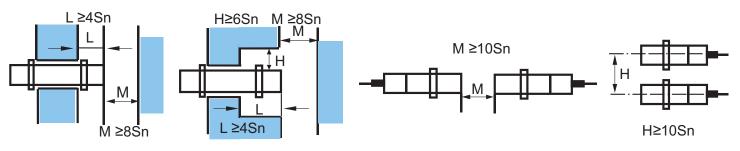
PROXIMITY SENSORS & CONNECTORS

www.digitalswitching.com.au



Features

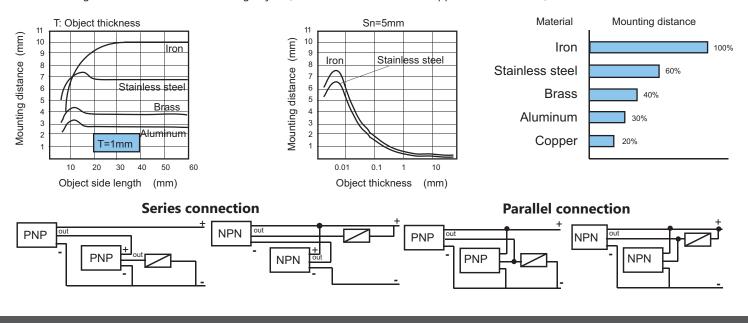
- Inductive proximity sensor
- Style: cylinder shape (M12, M18, M30).
- With LED operation indicator, easily identifiable.
- Brass nickle plated, proof of oil, water acid, alkaline.
- Standard sensing object: inductive sensor: ferrous metals.
- Over-load and short circuit protection; polarity reversal protection.
- RPM measuring in mechanism.
- Protection rate: IP67, water resistant.
- Shielded.
- Connection mode: M12 connector.
- DC 3-wire(10-30V DC).
- Connections BROWN * BROWN NO NO BROWN BROWN +V +\/ BLACK BLACK NPN NPN PNP PNP BLACK BLACK * out NO/NC out NO+NC WHITE out NO/NC NO+NC out WHITE BLUE * BLUE * BLUE BLUE οv ov O١ ov NC NO * Power Wire Brown Black Switching/Signal Wire White Switching/Signal Wire Installation Blue Ground Wire
 - 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, amd aluminum).

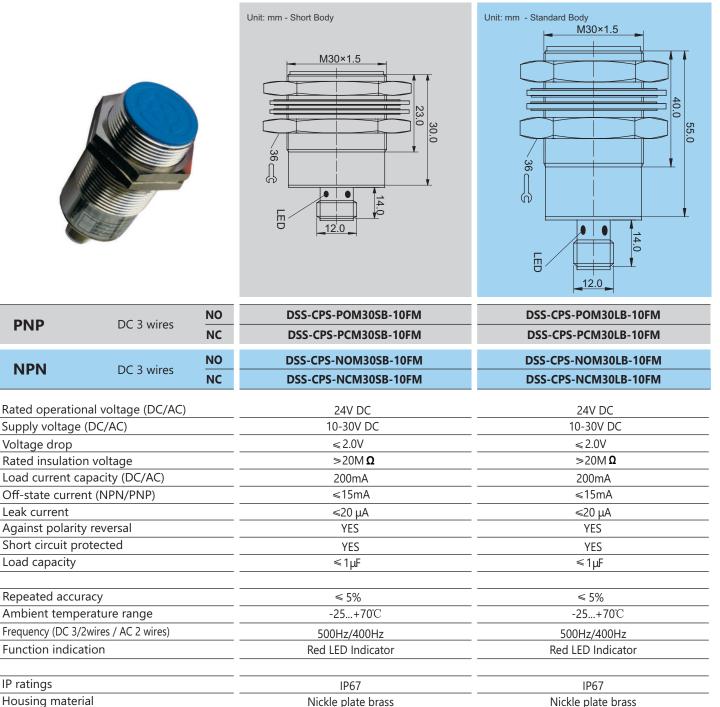


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Inductive Proximity Sensor

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



3		
Material of sensing face	ABS	ABS
Plug-in connector	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):

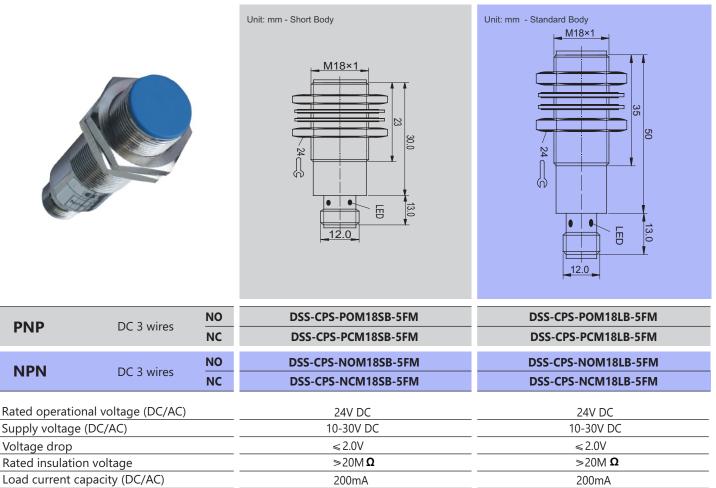
When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

P-3

Inductive Proximity Sensor

M18 Series

Dimension	M18 x1	M18 x1
Installation	Flush (shielded)	Flush (shielded)
Mounting distance Sn	5.0mm	5.0mm
Detect distance Sn	04.0mm	04.0mm



Against polarity reversal	YES	YES
Short circuit protected	YES	YES
Load capacity	<1µF	≤1µF
Repeated accuracy	<5%	≤5%
Ambient temperature range	-25+70°C	-25+70°C
Frequency (DC 3/2wires / AC 2 wires)	700Hz/400Hz	700Hz/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

≪15mA

≤20 μA

Normally Open (NO):

Off-state current (NPN/PNP)

Leak current

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.

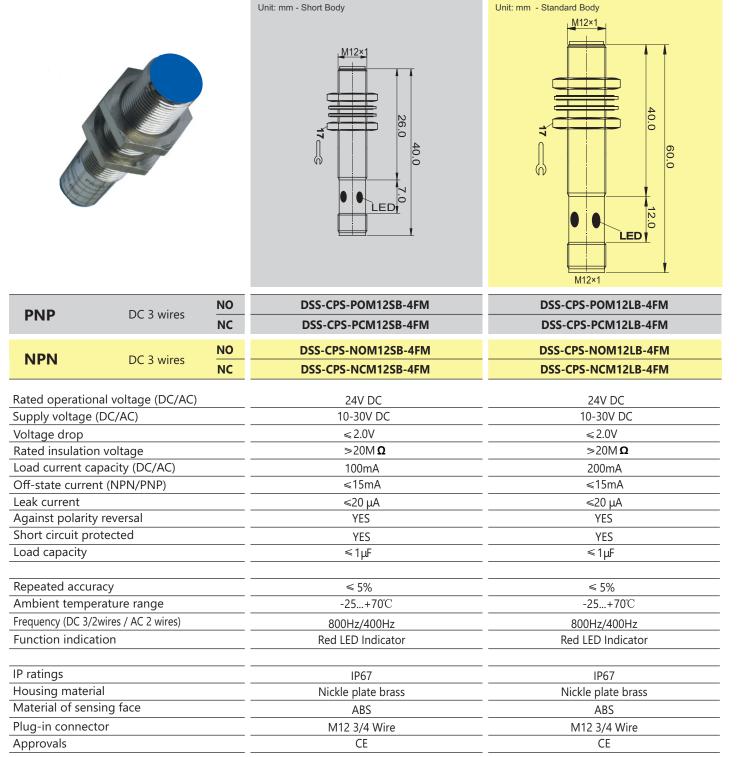
≤10mA

≤20 μA

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.

Plug-In Cables

Cables

Connector	M12 Straight	M12 90°Angled
	3/4 Pole (Pin)	3/4 Pole (Pin)
	Female	Female 014 10 10 10 27 27 27 10 10 27 27 10 10 10 27 10 10 27 10 10 27 10 10 27 10 10 27 10 10 10 27 10 10 10 27 10 10 10 10 27 10 10 10 10 10 10 10 10
	DSS-CCS-M12-F4A-3M	DSS-CCA-M12-F4A-3M
	DSS-CCS-M12-F4A-5M	DSS-CCA-M12-F4A-5M
	DSS-CCS-M12-F4A-10M	DSS-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	3(4) X 0.3mm ²
Material (Cable/Injection)	PVC	PVC
Material (Pole/Pin)	Copper	Copper
LED Lamp	NO	NO
Rated Voltage	DC 12~220V	DC 12~220V
Resistance of Each Core	17.24 X 10 ^{~3} Ω	17.24 X 10 ^{~3} Ω
Installation Strength	>200 M Ω	>200 M Q
IP Rating (Cable/Injection)	IP67/IP65	IP67/IP65

Interconnecting Cables

Cables

Connector	M12 Male	M12 Female
	3/4 Pole (Pin)	3/4 Pole (Pin)
	Male 014.5 12x1 43.5 2 04.8 04.8	Female $0 14.5$ M12x1 $1 0 4.8$
	DSS-CCS-FM12-F4A-3M	
	DSS-CCS-FM12-F4A-5M	
	DSS-CCS-FM12-F4A-10M	
Cable Lengths Available	3 Meter, 5 Meter, 10 Meter	
No. of Cores		-
Section of Each Core	3(4) X 0.3mm ²	-
Material (Cable/Injection)	PVC	-
Material (Pole/Pin)	Copper	_
LED Lamp	NO	-
Rated Voltage	DC 12~220V	-
Resistance of Each Core	17.24 X 10 ⁻³ Ω	_
Installation Strength	>200 M Ω	_
IP Rating (Cable/Injection)	IP67/IP65	_
Connection	Male - Female	_

Joining Connectors

Connectors

