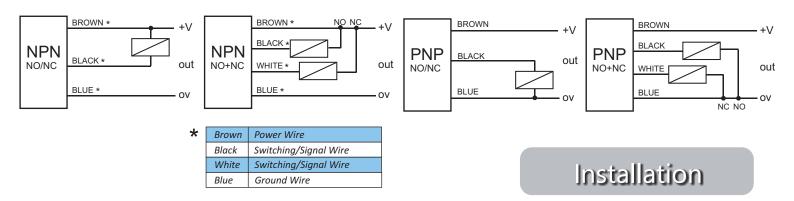


Proximity Sensors & Cables Catalogue

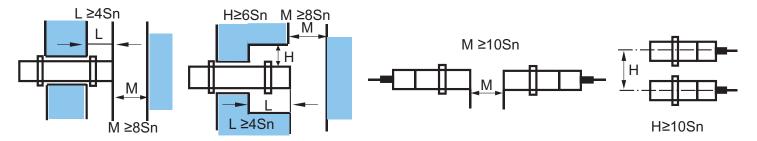
Features

- 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

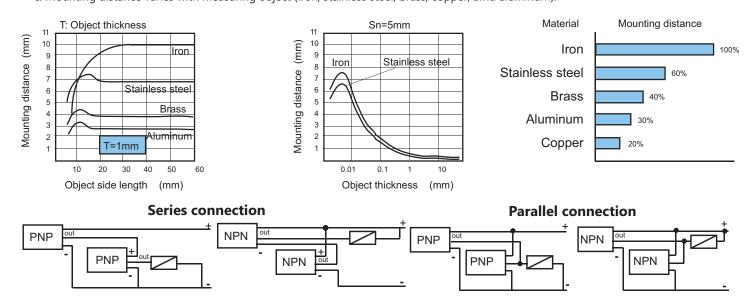


• When used in an area surrounded by metal or juxtaposed, install the sensor as follows. (Sn Sensing distance)



• 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).

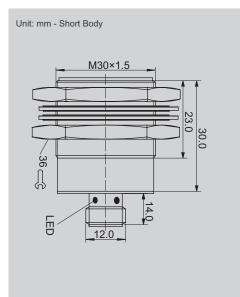


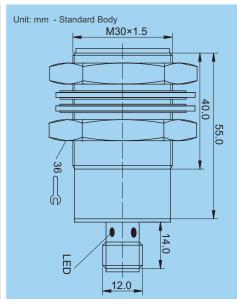
M30 Series

Inductive Proximity Sensor

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







PNP DC 3 wi	DC 2iv.	NO	DSS-CPS-POM30SB-10FM	DSS-CPS-POM30LB-10FM
	DC 3 wires	S NC	DSS-CPS-PCM30SB-10FM	DSS-CPS-PCM30LB-10FM
NIDNI DOGO :	NO	DSS-CPS-NOM30SB-10FM	DSS-CPS-NOM30LB-10FM	
NPN	DC 3 wires	NC	DSS-CPS-NCM30SB-10FM	DSS-CPS-NCM30LB-10FM
Rated operatio	nal voltage (DC/AC)		24V DC	24V DC
Supply voltage			10-30V DC	10-30V DC
Voltage drop			≤2.0V	≤2.0V
Rated insulation	n voltage		>20M Ω	>20M Ω
Load current ca	apacity (DC/AC)		200mA	200mA
Off-state curre	nt (NPN/PNP)		≤15mA	≤15mA
Leak current				<20 μA
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)		500Hz/400Hz	500Hz/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):

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

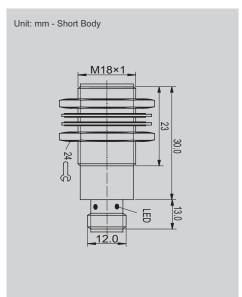
Normally Closed (NC):

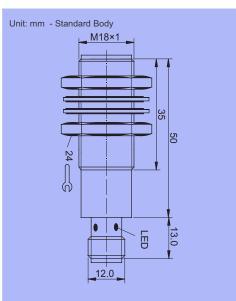
When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

Inductive Proximity Sensor

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







PNP	DC 3 wires	NO	DSS-CPS-POM18SB-5FM	DSS-CPS-POM18LB-5FM
PINP	DC 3 wiles	NC	DSS-CPS-PCM18SB-5FM	DSS-CPS-PCM18LB-5FM
NIDNI	DC 2'	NO	DSS-CPS-NOM18SB-5FM	DSS-CPS-NOM18LB-5FM
NPN	DC 3 wires	NC	DSS-CPS-NCM18SB-5FM	DSS-CPS-NCM18LB-5FM
Rated operatio	nal voltage (DC/AC)		24V DC	24V DC
Supply voltage			10-30V DC	10-30V DC
Voltage drop				≤2.0V
Rated insulation	on voltage		>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 reversal		YES	YES	
Short circuit protected		YES	YES	
Load capacity			≤1μF	≤1µF
Repeated accu	racy		≤ 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				
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
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.

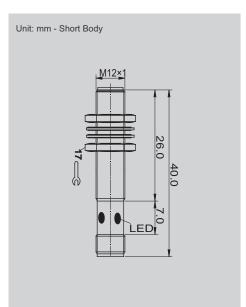
Normally Closed (NC):

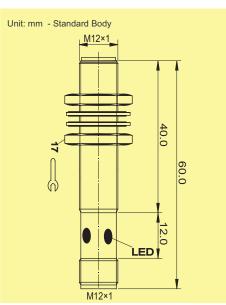
When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.

Inductive Proximity Sensor

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







PNP	DC 3 wires	NO NC	DSS-CPS-POM12SB-4FM DSS-CPS-PCM12SB-4FM	DSS-CPS-POM12LB-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 operation	nal voltage (DC/AC)		24V DC	24V DC
Supply voltage	(DC/AC)		10-30V DC	10-30V DC
Voltage drop			≤ 2.0V	≤2.0V
Rated insulation	on voltage		>20M Ω	>20M Ω
Load current c	apacity (DC/AC)		100mA	200mA
Off-state curre	ent (NPN/PNP)		<15mA	≤15mA
Leak current			<20 μA	 ≤20 μA
Against polarity reversal		YES	YES	
Short circuit protected		YES	YES	
Load capacity		<u></u> ≤1μF	<1μF	
Repeated accuracy		<u> </u>	≤ 5%	
Ambient temp	erature 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	
Housing material		Nickle plate brass	Nickle plate brass	
Material of sensing face		ABS	ABS	
Plug-in connec	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.

Cables

Connector	M12 Straight	M12 90°Angled
	3/4 Pole (Pin)	3/4 Pole (Pin)
	Female Ø14.5 M12x1 1 BR 2 WH BUI3	Female M12x1 10 27 BK BK WH BUI3
	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
nstallation Strength	>200 M Ω	>200 M Ω
IDD 1: (C.11 (I.: 1:)		

IP67/IP65

IP67/IP65

IP Rating (Cable/Injection)

Interconnecting Cables

Cables

Connector M12 Male M12 Female 3/4 Pole (Pin) 3/4 Pole (Pin) Male Female Ø 14.5 Ø14.5 M12x1 M12x1 1|BR 1|BR Ø 4.8 Ø4.8 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 16X0.15 3(4) X 0.3mm² Section of Each Core PVC Material (Cable/Injection) Material (Pole/Pin) Copper LED Lamp NO Rated Voltage DC 12~220V

17.24 X 10^{~3}**Ω**

>200 M**Ω**

IP67/IP65 Male - Female

Resistance of Each Core Installation Strength

IP Rating (Cable/Injection)

Connection

Joining Connectors

Connectors

Connector	M12 Female 4 Poles (Pins)	M12 Male 4 Poles (Pins)
	M12 x 1	M12 x1 60
	DSS-CCS-F-4A	DSS-CCS-M-4A
Cable	User Connect	User Connect
No. of Poles/Pins	3 or 4	3 or 4
Material of Housing	ABS	ABS
Material (Pole/Pin)	Nickle Plated Brass	Nickle Plated Brass
LED Lamp	NO	NO
Rated Voltage	AC/DC 12~250V	AC/DC 12~250V
Rated Current	AC 3A	AC 3A
Connection Method	Terminals	 Terminals
Installation Strength	>200 M Ω	>200 M Ω