

Inductive Proximity Sensors



DC Inductive Sensor - Connector Type

TECHNICAL SPECIFICATION

Type	DC PNP/NPN,NO/NC
Operating voltage	10 - 30V DC
Current consumption	<15mA DC
Output voltage drop at maximum load	<2V DC
Maximum load current	200mA
Sensing distance (S_s)	As per standard
Real sensing distance (S_r)	$S_s \pm 10\%$
Hysteresis	5 to 15% of S_s
Protection class	IP 67
Operating temperature	0 -70° C
Standard target	M8 - 8 x 8 x 1 mm made of mild steel
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
	M30 - 30 x 30 x 1mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3

DC Inductive Sensor - Cable Type



TECHNICAL SPECIFICATION

Type	DC 2 WIRE, NO/NC
Operating voltage	10 - 30V DC
OFF state current	<2mA DC
Voltage drop at maximum load	<4V
Maximum load current	200mA
Sensing distance (S_s)	As per standard
Real sensing distance (S_r)	$S_s \pm 10\%$
Effective sensing distance (S_e)	$0.81 S_s = S_e = 1.21 S_s$
Hysteresis	5 to 15% of S_s
Protection class	IP 67
Operating temperature	0 -70° C
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3

SENSORS



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AC Inductive Sensor

TECHNICAL SPECIFICATION

Type	AC 2 WIRE, NO/NC
Operating voltage	24V - 270V AC
OFF state current	< 2mA AC
Voltage drop at maximum load	<8.5V AC
Maximum load current	250mA AC
Sensing distance (S _n)	As per standard
Real sensing distance (S _r)	S _n ± 10%
Effective sensing distance (S _e)	0.81 S _n = S _e = 1.21 S _r
Hysteresis	5 to 15% of S _n
Protection class	IP 67
Operating temperature	0 -70° C
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3



Analog Sensors

TECHNICAL SPECIFICATION

Supply Voltage	18-30 VDC
Supply Current	10 mA
Temperature Range	25°C to +70°C
	0°C to +70°C
Degree of Protection	IP 67
Housing Material	Nickel Plated Brass & Plastic
Frequency Response	1 KHz
Load Resistance	0.1 - 500 Ohms
Sensing Distance	
M 18	1 - 4 mm
M 30	7 - 14 mm
Output	0 - 20mA OR 0 - 10mA



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Inductive Proximity Sensors

DC-Namur Sensors



TECHNICAL SPECIFICATION	
Voltage Range	5-15 VDC
Ripple Voltage	= 10%
Repeat Accuracy	0.01 mm
Temperature Range	0°C to +70°C
Degree of Protection	IP 67
Terminal	Cable 2 m 2 x 0.34 Sq. mm.
Housing Material	
Metal	Brass Nickel Chrome Plated

Max. Switching Freq. (kHz - with ohmic load)				
Size	M8	M12	M18	M30
Flush	2	1.5	0.8	0.5
Non-Flush	2	1.5	0.8	0.5

