

## 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 ( $S_e$ )	$0.81 S_s = S_r = 1.21 S_s$
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



## Inductive Proximity Sensors



### 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 <sub>n</sub> )	As per standard
Real sensing distance (S <sub>r</sub> )	S <sub>n</sub> ± 10%
Effective sensing distance (S <sub>e</sub> )	0.81 S <sub>n</sub> = S <sub>e</sub> = 1.21 S <sub>r</sub>
Hysteresis	5 to 15% of S <sub>n</sub>
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	(9914-0800/-0900/9814-1100)
	0°C to +70°C	(9914-1000)
Degree of Protection	IP 67	
Housing Material	Nickel Plated Brass	
Max. Switching Frequency	9914-0800/-0900: 100 Hz	
	9914-1000: 30 Hz	
	9814-1100: 25 Hz	



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## Inductive Proximity Sensors

### DC-Namur Sensors



TECHNICAL SPECIFICATION	
Voltage Range	5-15 VDC
Ripple Voltage	= 5%
Repeat Accuracy	= 10%
Temperature Range	25°C to +60°C
Degree of Protection	IP 67
Terminal	Cable 2 m
	M8: 2 x 0.14 mm <sup>2</sup>
	M12/18/30: 2 x 0.25 mm <sup>2</sup>
Housing Material	
Metal	Nickel Plated Brass
Plastic	Trogamid T

Max. Switching Freq. (kHz - with ohmic load)				
Size	M8	M12	M18	M30
Flush	2	2	1	0.5
Non-Flush	1	1	0.5	0.3

