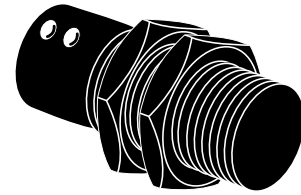


30mm

Inductive Tubular Threaded Barrel

Weld Field Immune



Proximity Sensors

- Weld Field and Electrical Noise Immunity
- Standard Latching Short Circuit Protection (SCP), Non-Latching SCP available for DC models only.
- Dual LED indicators
- Predictable, consistent electrical performance
- 100% tested & burned-in
- New Hardcoat housings are resistant to weld expulsion

These sensors are specifically designed for extreme duty use in harsh applications (i.e., automotive fabrication, assembly plants, etc.). The tubular series is popular as part present and machine location sensors for demanding applications such as resistance welding of body assemblies. Namco's proprietary Hardcoat housings will not allow the hot weld expulsion to adhere to the housing.

10mm (Shielded) and 15mm (Unshielded) Sensing Range

Connector Type	Circuit Description	Housing Material	Housing Length	Shielded Model No.	Unshielded Model No.	Maximum Load Current	Leakage Current	Voltage Drop*	Maximum Switching Frequency		Short Circuit Protected
									Shielded	Unshielded	
WFI DC 10-30V											
4-pin Euro	3W, PNP, NO	Metal-HC	76mm	EE510-77442	EE510-76442	200mA	10µA	2 VDC @ 100mA	16Hz	16Hz	Latching
4-pin Mini	3W, PNP, NO	Metal-HC	76mm	EE510-77402	EE510-76402	200mA	10µA	2 VDC @ 100mA	16Hz	16Hz	Latching
4-pin Euro	3W, PNP, NO	Metal-HC	76mm	EE510-77042	EE510-76042	200mA	10µA	2 VDC @ 100mA	16Hz	16Hz	Non-Latching
4-pin Mini	3W, PNP, NO	Metal-HC	76mm	EE510-77002	EE510-76002	200mA	10µA	2 VDC @ 100mA	16Hz	16Hz	Non-Latching
WFI AC/DC 20-230V											
3-pin Mini	2W, AC/DC, NO,LL	Metal-HC	76mm	EE530-77402	EE530-76402	500mA	1.7mA	<10V	16Hz	16Hz	Latching
3-pin Mini	2W, AC/DC, NO, HL	Metal-HC	76mm	EE560-77402	EE560-76402	500mA	4.5mA	<10V	16Hz	16Hz	Latching
3-pin Micro	2W, AC/DC, NO	Metal-HC	76mm	EE530-77432	EE530-76432	500mA	1.7mA	<10V	16Hz	16Hz	Latching

* Across conducting sensor

► Consult factory for normally closed model availability.



Common Sensor Characteristics

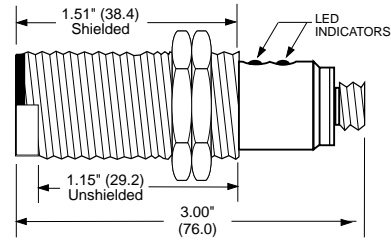
30mm DIAMETER WFI SENSORS	
Shielded Sensing Range ($\pm 10\%$)	10mm
Unshielded Sensing Range ($\pm 10\%$)	15mm
Short Circuit Protection	yes
Repeatability	$< \pm 1\%$
Hysteresis	3-10%
Range Drift over Temperature	$\pm 10\%$
Operating Temperature Range	-4°F to +158°F
Reverse Polarity Protected	yes
Current Consumption (3-wire DC only)	10mA
NEMA Enclosure Type	1, 3, 4, 6, 13
LED Indicator (AC/DC)	red = pwr, green = target
LED Indicator (DC)	green = pwr, amber = target
Metal Housings	Weld Flash Proof
Shipping Weight	5 oz.

Dimensional Drawings

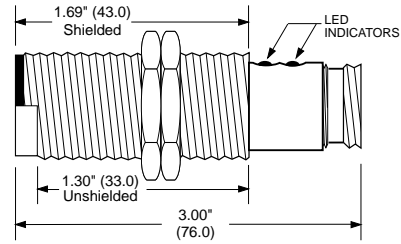
30mm-WFI

EURO/MICRO CONNECTOR MODELS

Body threads = M30x1.5



MINI CONNECTOR MODELS



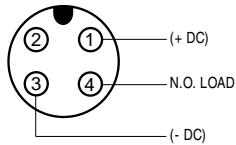
Proximity Sensors

Circuit Drawings

EURO CONNECTOR MODELS

Male view shown

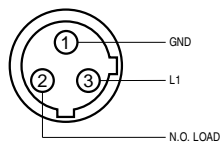
3 Wire DC N.O.



MICRO CONNECTOR MODELS

Male view shown

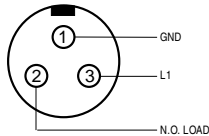
2 Wire AC/DC N.O.



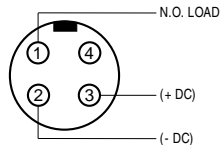
MINI CONNECTOR MODELS

Male views shown

2 Wire AC/DC N.O.



3 Wire DC N.O.



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