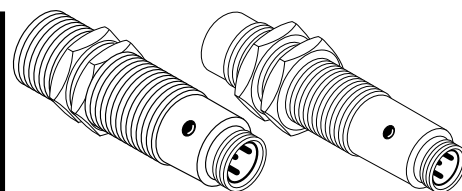


18mm

Inductive Tubular Threaded Barrel

DC



Proximity Sensors

5mm (Shielded) and 8mm (Unshielded) Sensing Ranges

Connector Type	Circuit Description	Housing Material	Housing Length	Shielded Model No.	Unshielded Model No.	Maximum Load Current	Leakage Current	Voltage Drop*	Maximum Switching Frequency		Reverse Polarity Protected
									Shielded	Unshielded	
DC 10-30V Metal											
4-pin Euro	3W, NPN, NO	Metal	76mm	ET310-32151	ET310-33151	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
4-pin Euro	3W, PNP, NO	Metal	76mm	ET311-32151	ET311-33151	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
4-pin Mini	3W, NPN, NO	Metal	70mm	ET310-32100	ET310-33100	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
4-pin Mini	3W, PNP, NO	Metal	66mm	ET311-32100	ET311-33100	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, NPN, NO	Metal	50mm	ET310-32110	ET310-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, NPN, NO	Metal	80mm	ET110-32110	ET110-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, PNP, NO	Metal	50mm	ET311-32110	ET311-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, PNP, NO	Metal	80mm	ET111-32110	ET111-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
DC 10-30V Plastic											
6.6' Cable	3W, NPN, NO	Plastic	50mm	ET310-52110	ET310-53110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, NPN, NO	Plastic	80mm	ET210-32110	ET210-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, PNP, NO	Plastic	50mm	—	ET311-53110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
6.6' Cable	3W, PNP, NO	Plastic	80mm	ET211-32110	ET211-33110	400mA	<10µA	<2.5 VDC	300Hz	250Hz	yes
NAMUR 5-25 VDC											
6.6' Cable	Analog	Metal	30mm	ET112-30310	ET112-31310	N/A	—	—	500Hz	200Hz	N/A
6.6' Cable	Analog	Plastic	30mm	ET212-30310	ET212-31310	N/A	—	—	500Hz	200Hz	N/A

* Across conducting sensor

▶ Consult factory for normally closed model availability.

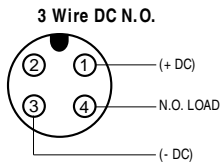


Common Sensor Characteristics

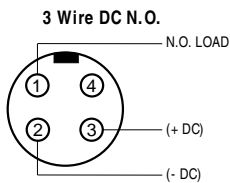
18mm DIAMETER DC SENSORS	
Shielded Sensing Range ($\pm 10\%$)	5mm
Unshielded Sensing Range ($\pm 10\%$)	8mm
Standard Target (mm) (mild steel)	18x18x1 (Shielded) 24x24x1 (Unshielded)
Repeatability	$\pm 2\%$
Hysteresis	3-8% (typ.); 15% (max.)
Temperature Drift (max.)	$\pm 15\%$
Ambient Temperature Range	-13°F to +158°F
Reverse Polarity Protected	yes
Current Consumption	<1.5mA
NEMA Enclosure Type	
Metal	1, 3, 4, 6, 13
Plastic	1, 3, 4, 4x, 6, 13
LED Indicator	red = target
Metal Housings	Chrome Plated Brass
Plastic Housings	Ultradur®
Cable Type	PVC
Shipping Weight	Connector model: 4 oz. Cable model: 9 oz.

Circuit Drawings

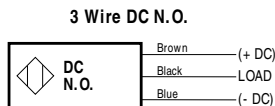
EURO CONNECTOR MODELS Male views shown



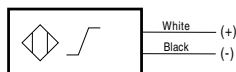
MINI CONNECTOR MODELS Male views shown



CABLE MODELS



NAMUR MODELS

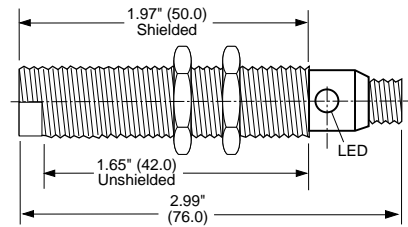


Dimensional Drawings

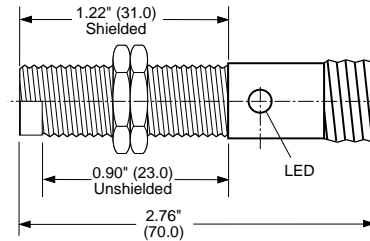
18mm-DC

EURO CONNECTOR MODELS

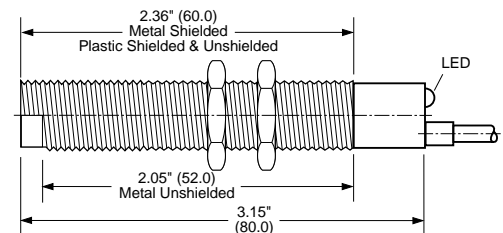
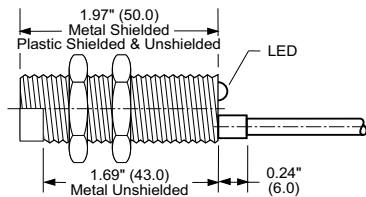
Body threads - M18x1



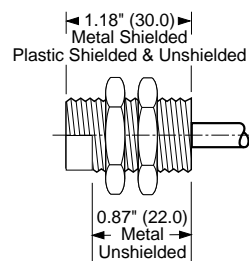
MINI CONNECTOR MODELS



CABLE MODELS



CABLE MODELS-NAMUR



NAMCO

2013 West Meeting Street • Lancaster, SC 29720
1-803-286-8491 • FAX: 1-800-678-6263
www.namcocontrols.com

For technical assistance, call 1-800-NAMTECH