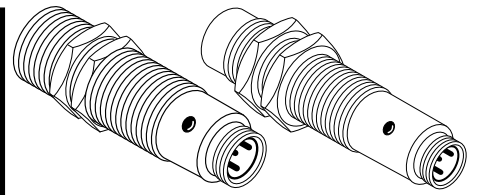


# 18mm

# 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	
<b>DC 10-30V Metal</b>											
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
<b>DC 10-30V Plastic</b>											
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
<b>NAMUR 5-25 VDC</b>											
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.

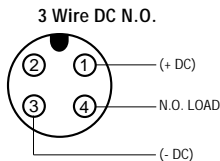


## Common Sensor Characteristics

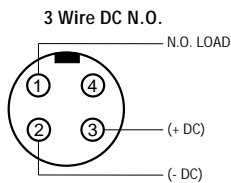
18mm DIAMETER DC SENSORS	
Shielded Sensing Range ( $\pm 10\%$ )	5mm
Unshielded Sensing Range ( $\pm 10\%$ )	8mm
Standard Target (mm) (mild steel)	18x18x1 (Shielded) 24x24x1 (Unshielded)
Repeatability	$\pm 2\%$
Hysteresis	3-8% (typ.); 15% (max.)
Temperature Drift (max.)	$\pm 15\%$
Ambient Temperature 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

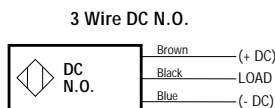
### EURO CONNECTOR MODELS Male views shown



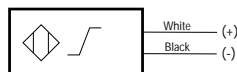
### MINI CONNECTOR MODELS Male views shown



### CABLE MODELS



### NAMUR MODELS

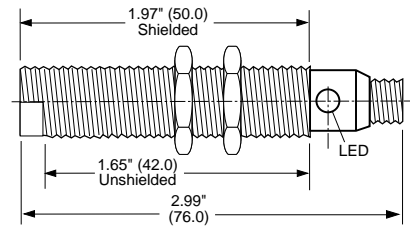


## Dimensional Drawings

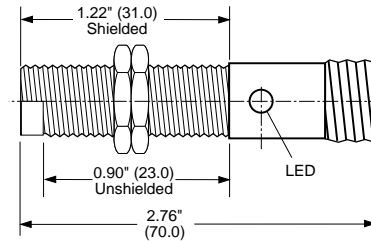
# 18mm-DC

### EURO CONNECTOR MODELS

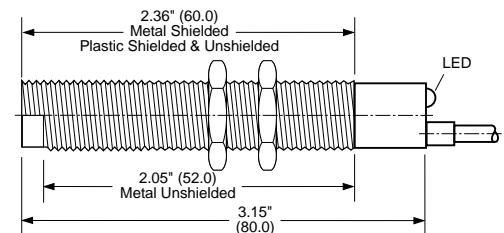
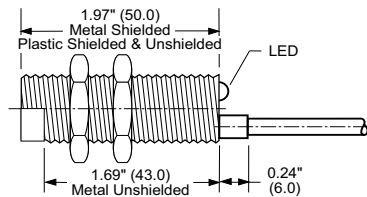
Body threads - M18x1



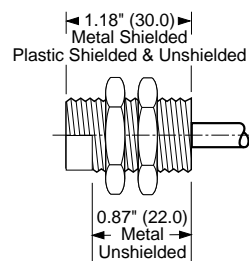
### MINI CONNECTOR MODELS



### 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