12mm Threaded Cylindrical Capacitive Proximity Sensors

Sensing Specifications

Flush Mountable	Shielded sensors only
Nominal Sensing Distance (Sn)	2.5mm
Repeat Error (% of Sn)	<2%
Hysteresis (% of SN)	2-20% (5% is typical)

c UL us LISTED File Number E466922

CE

RoHS

Mechanical Specifications

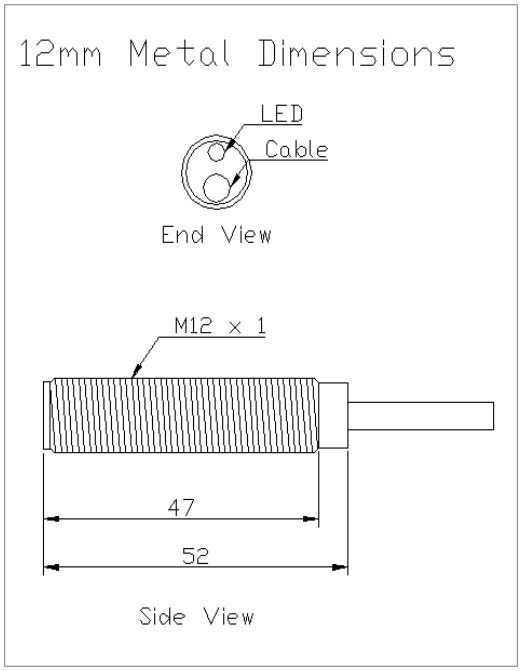
Dimensions	M12x1 (see drawings)
DC Cable Versions	2 meter length, 3 wire, #22 AWG, .19"OD, PVC, UL2464
Enclosure Rating	IP67, NEMA 1,3,4,6,13
Operating Temperature Range	-25˚ to 70˚C (-13 to 158˚F)
Signal Indicator	Yellow LED
Sensor Face Material	Plastic (Valox DR-48)
Barrel Material - Shielded Versions	Ni-Plated Brass
Shock	30g, 11ms

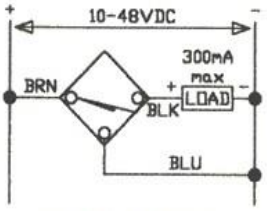
Electrical Specifications

	DC Versions
Supply Voltage Range	5-48 VDC
Contiuous Switching Current	300 mA
Voltage Drop	<2V DC
Current Consumption	<10 mA
Maximum Switching Frequency	100 Hz
Leakage Current	n/a
Transient Protection	Yes
Short Circuit Protection	Yes
Reverse Polarity Protection	Yes

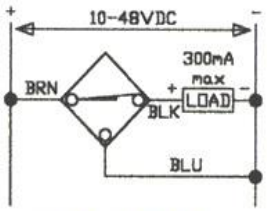
Part Numbers

Supply Voltage	Shielded	Sensing Range	PNP (sourcing)	NPN (Sinking)	Normally Open	Normally Closed	Termination	Part Number
5-48VDC	Y	2.5mm	Y		Y		Cable	C1A12AP1-M
5-48VDC	Y	2.5mm	Y			Y	Cable	C1A12BP1-M
5-48VDC	Y	2.5mm		Y	Y		Cable	C1A12AN1-M
5-48VDC	Y	2.5mm		Y		Y	Cable	C1A12BN1-M

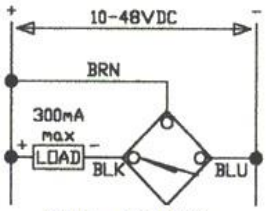




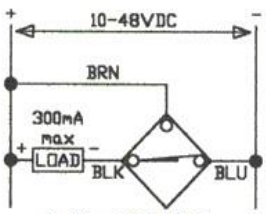
Cable - PNP/N.O.
Wiring Diagram #1



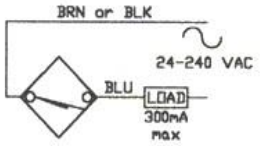
Cable - PNP/N.C.
Wiring Diagram #2



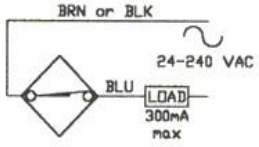
Cable - NPN/N.O.
Wiring Diagram #3



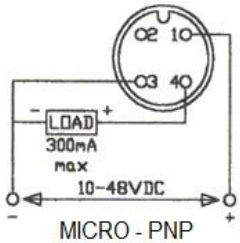
Cable - NPN/N.C.
Wiring Diagram #4



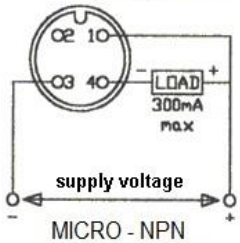
Cable - AC/N.O.
Wiring Diagram #5



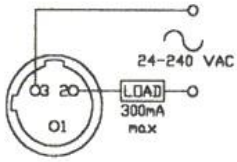
Cable - AC/N.C.
Wiring Diagram #6



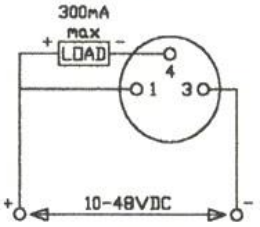
MICRO - PNP
Wiring Diagram #7



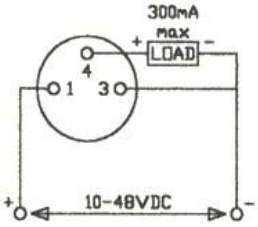
MICRO - NPN
Wiring Diagram #8



1/2"-20 UNF AC-MICRO
Wiring Diagram #9



PICO - NPN
Wiring Diagram #10



PICO - PNP
Wiring Diagram #11

Stedham Electronics
4900 Mill Street, bldg A-4
Reno, NV 89502
www.stedham.com
(775)826-2003