

Special Application Note: This family of sensors is most useful in liquid level sensing applications when detecting through non-conductive wall materials such as fiberglass, plastics, glass, etc. Use Shielded sensors for non-conductive liquids and when detecting small amounts of all liquids. Use Unshielded sensors for conductive liquids.

Sensing Specifications

Flush Mountable	Shielded sensors only
Nominal Sensing Distance (Sn)	10mm
Repeat Error (% of Sn)	<2%
Hysteresis (% of SN)	2-20% (5% is typical)



Mechanical Specifications

Dimensions	30x45mm (see drawings)
DC Cable Versions	2 meter length, 3 wire, #22 AWG, .19"OD, PVC, UL2464
DC connector Versions	M8 3-Pin PICO
Enclosure Rating	IP67, NEMA 1,3,4,6,13
Operating Temperature Range	-25° to 70°C (-13 to 158°F)
Signal Indicator	Yellow LED
Power-on Indicator	Green LED
Sensitivity Adjustment	Potentiometer
Sensor Body Material	Plastic (Glass filled Nylon)
Shock	30g, 11ms

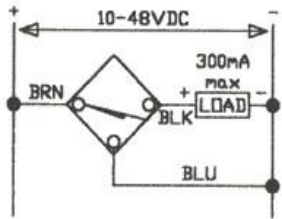
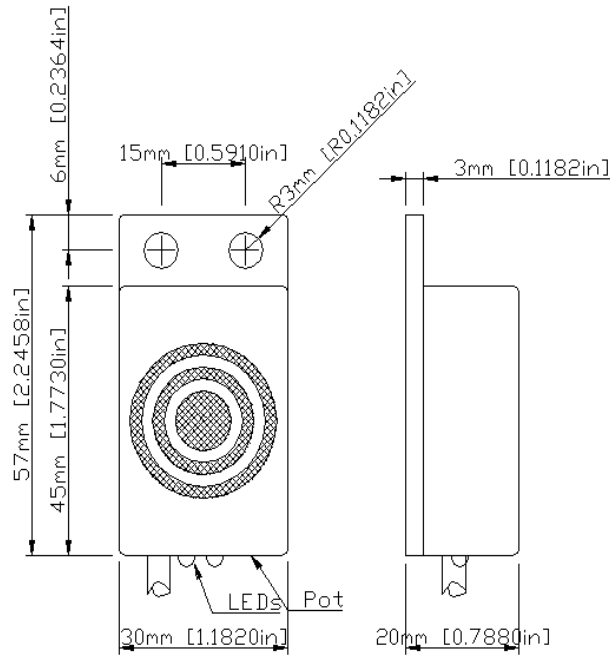


Electrical Specifications

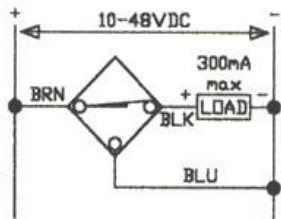
Supply Voltage Range	5-48 VDC
Continuous Switching Current	300 mA
Voltage Drop	<2V DC
Current Consumption	<10 mA
Maximum Switching Frequency	100 Hz
Leakage Current	n/a
Transient Protection	Yes
Short Circuit Protection	Yes
Reverse Polarity Protection	Yes

Part Numbers

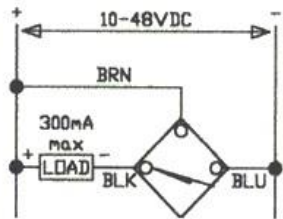
Supply Voltage	Shielded	Sensing Range	PNP (sourcing)	NPN (Sinking)	AC	Normally Open	Normally Closed	Wiring Diagram	Termination	Part Number
5-48VDC	Y	0-10mm	Y			Y		1	Cable	C1D45AP1-P
5-48VDC	Y	0-10mm	Y			Y		11	PICO	C1D45AP2-P
5-48VDC	Y	0-10mm	Y				Y	2	Cable	C1D45BP1-P
5-48VDC	Y	0-10mm	Y				Y	11	PICO	C1D45BP2-P
5-48VDC	Y	0-10mm		Y		Y		3	Cable	C1D45AN1-P
5-48VDC	Y	0-10mm		Y		Y		10	PICO	C1D45AN2-P
5-48VDC	Y	0-10mm		Y			Y	4	Cable	C1D45BN1-P
5-48VDC	Y	0-10mm		Y			Y	10	PICO	C1D45BN2-P
5-48VDC		0-10mm	Y			Y		1	Cable	C2D45AP1-P
5-48VDC		0-10mm	Y			Y		11	PICO	C2D45AP2-P
5-48VDC		0-10mm	Y				Y	2	Cable	C2D45BP1-P
5-48VDC		0-10mm	Y				Y	11	PICO	C2D45BP2-P
5-48VDC		0-10mm		Y		Y		3	Cable	C2D45AN1-P
5-48VDC		0-10mm		Y		Y		10	PICO	C2D45AN2-P
5-48VDC		0-10mm		Y			Y	4	Cable	C2D45BN1-P
5-48VDC		0-10mm		Y			Y	10	PICO	C2D45BN2-P



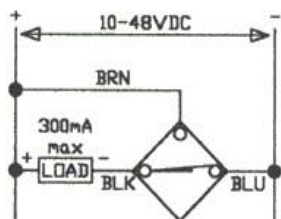
Cable - PNP/N.O.
Wiring Diagram #1



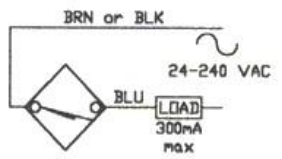
Cable - PNP/N.C.
Wiring Diagram #2



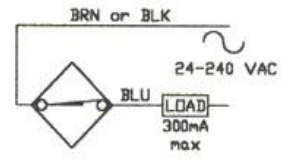
Cable - NPN/N.O.
Wiring Diagram #3



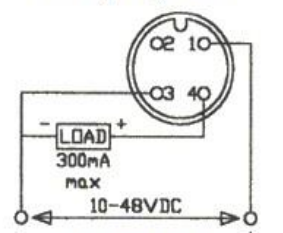
Cable - NPN/N.C.
Wiring Diagram #4



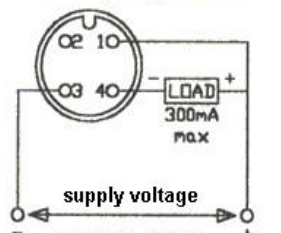
Cable - AC/N.O.
Wiring Diagram #5



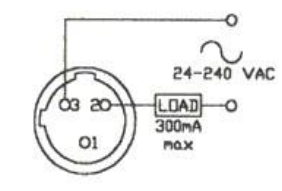
Cable - AC/N.C.
Wiring Diagram #6



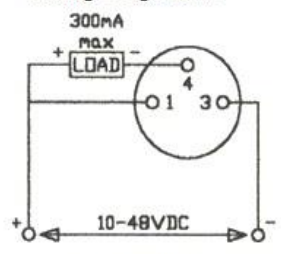
MICRO - PNP
Wiring Diagram #7



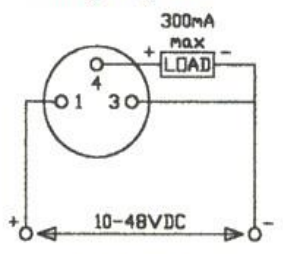
MICRO - NPN
Wiring Diagram #8



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



PICO - NPN
Wiring Diagram #10



PICO - PNP
Wiring Diagram #11