

Capacitive Proximity Sensor, Cylindrical, M18, Shielded, Ni-plated Brass, AC 2-wire NC, Sensing Distance 5 mm, 2 meter 2-wire cable



PXCAP18-2005B

Capacitive Proximity Sensor

Features

- Fast Response
- Corrosion Resistant Housing
- Short-Circuit & Reverse Polarity Protection
- IP54 Protection

Applications

- Industrial Automation
- Automotive
- Materials Production
- Warehouse Automation
- Food & Beverage
- Robotics

Description

The L-com PXCAP18-2005B capacitive proximity sensor is utilized for contactless object detection, part counting or positioning in industrial automation and process control applications. Our cylindrical (shielded) capacitive IOT sensor is constructed of Ni-plated brass and ABS and features a tough industrial grade IP54 housing. This sensor is unaffected by the color or transparency of objects.

General Specifications

Type	Capacitive Proximity Sensor
Design Type	Cylindrical (Shielded & Threaded)
Form Factor	M18
Output Type	AC 2-wire
Sensing Distance	0 to 5 mm
AC Supply Voltage	90-250 VAC
Insulation Resistance	50 MΩ
IP Rating	IP54
Housing Material	Ni-plated brass/ABS
Current Consumption	15 mA
Protective Circuit	Short Circuit and Reverse Polarity
Connection Method	2 meter 2-wire cable
Load Current	300 mA
Voltage Drop	<7V
Indicator	LED
Mounting	Threaded M18
Switch Frequency	50 Hz
Sensitivity Adjustment	Yes

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Capacitive Proximity Sensor, Cylindrical, M18, Shielded, Ni-plated Brass, AC 2-wire NC, Sensing Distance 5 mm, 2 meter 2-wire cable PXCAP18-2005B](#)

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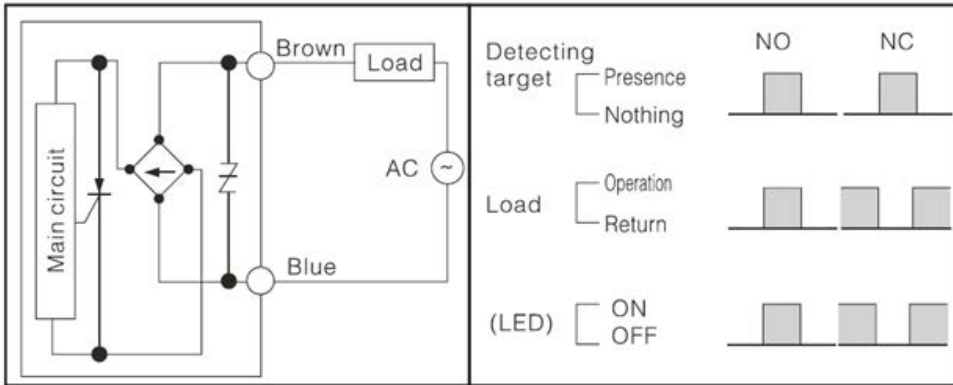


PXCAP18-2005B

Capacitive Proximity Sensor

Circuit Diagram

AC 2-wire



Environmental Specifications

Temperature

Operating Range

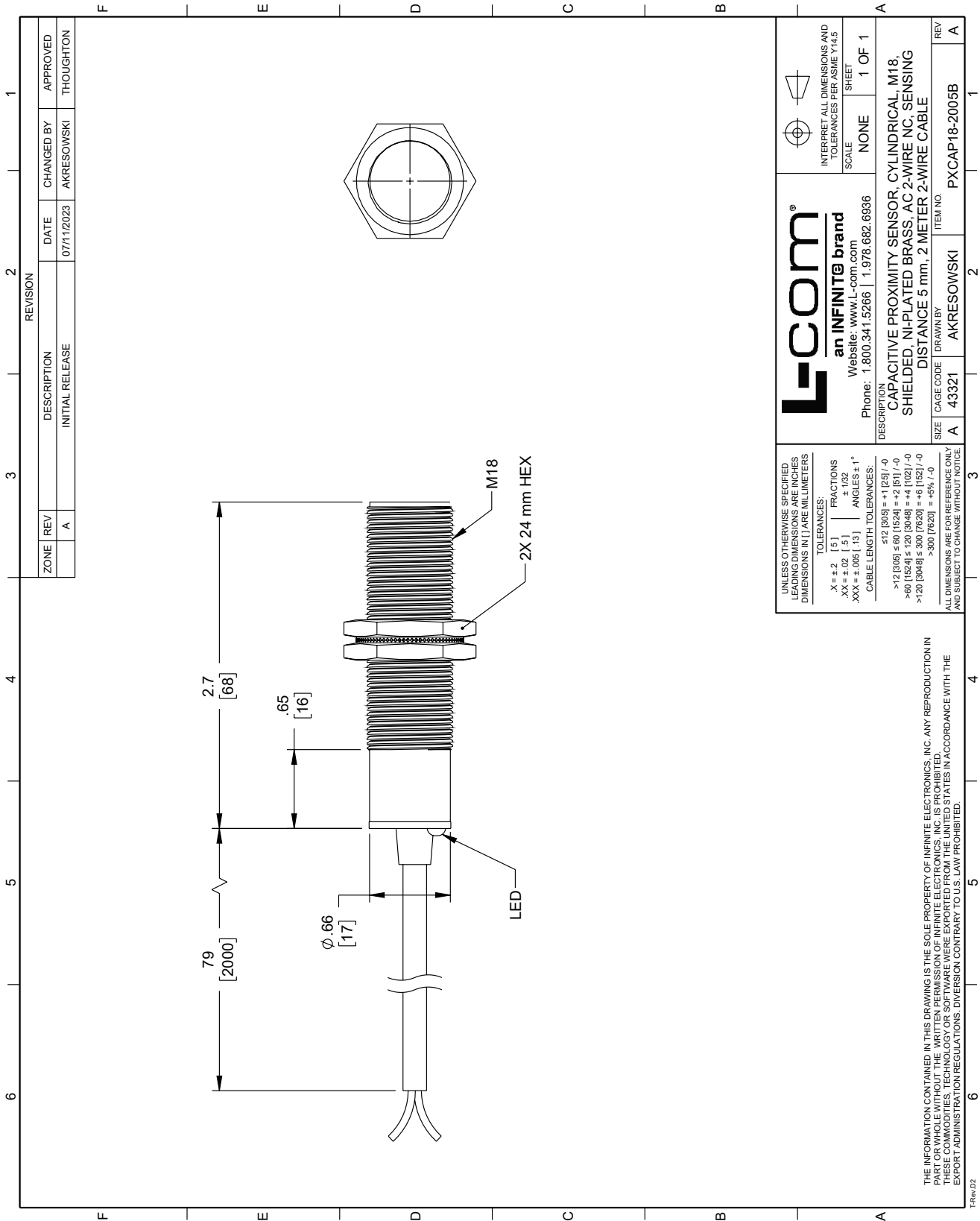
-25 to +70 deg C

Capacitive Proximity Sensor, Cylindrical, M18, Shielded, Ni-plated Brass, AC 2-wire NC, Sensing Distance 5 mm, 2 meter 2-wire cable from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		A	INITIAL RELEASE	07/11/2023	AKRESOWSKI	THOUGHTON

REVISION	
1	INITIAL RELEASE

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Website: www.l-com.com
Phone: 1.800.341.5266 | 1.978.682.6936

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

DESCRIPTION
CAPACITIVE PROXIMITY SENSOR, CYLINDRICAL, M18,
SHIELDED, NI-PLATED BRASS, AC 2-WIRE NC, SENSING
DISTANCE 5 mm, 2 METER 2-WIRE CABLE

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	AKRESOWSKI	PXCAP18-2005B

REV A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS
 .XX = ±.02 [.5] ± 1/32
 .XXX = ±.005 [.13] ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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