

WIRING DIAGRAM

OUTPUT: AP4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M12

SPECIFICATIONS

OPERATING VOLTAGE	10-65 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	≤1 mm
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC SELF-CONTAINED
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
OFF-STATE (LEAKAGE) CURRENT	<10μ A
NO-LOAD CURRENT	≤10 mA
TIME DELAY BEFORE AVAILABILITY	≤5 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	2 kV, 1 ms, 1 kΩ
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED
SWITCHING FREQUENCY	≤1000 Hz
REPEATABILITY	≤0.1 mm (CONSTANT TEMPERATURE AND VOLTAGE)
TEMPERATURE DRIFT	≤0.1 mm
PERMISSIBLE SPEED	1 m/second
MAGNETIC ACTUATION STRENGTH	20-350 GAUSS (2-35 mT)

NOTES: 1. MATERIALS:
BARREL - CHROME-PLATED BRASS
LOCKNUTS - CHROME-PLATED BRASS
CONNECTOR - CHROME-PLATED BRASS
SENSING FACE - PA12-GF30 PLASTIC

SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS

1.
2.
3.
4.

3RD ANGLE PROJECTION

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DRFT JBJ
DSGN
DATE 12/19/02
SCALE NONE

UNIT OF MEASUREMENT
INCH [MILLIMETER]
DO NOT SCALE THIS DRAWING

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High Technology Sensors and Automation Controls

DESCRIPTION
BIM-M12E-AP4X-H1141

IDENTIFICATION NO.
M1579913

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DRAWING RELEASE
DESCRIPTION

JBJ
BY

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DATE

ECO NO.

MATERIAL
SEE NOTES

FINISH
SEE NOTES

CONTACT TURCK FOR MORE INFORMATION

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SHEET 1 OF 1