

WIRING DIAGRAM

OUTPUT: AZ3X

WARNING: NO SHORT-CIRCUIT PROTECTION  
ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.

LOCKNUT LN-P18

M18x1

.945  
24.0

1.063  
27.0

.315  
8.0

SPECIFICATIONS

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| RATED OPERATING DISTANCE          | 5mm = .197"                                |
| MOUNTING MODE                     | FLUSH                                      |
| TEMPERATURE DRIFT                 | ≤ ± 10%<br>≤ ± 20%, ≥ ± 70 °C              |
| HYSTERESIS (SWITCHING DISTANCE)   | 3-15%                                      |
| MIN. REPEAT ACCURACY              | ≤ 2%                                       |
| OPERATING TEMPERATURE             | -25°C to +70°C (-13°F to +158°F)           |
| RATED OPERATIONAL VOLTAGE         | 20-250 VAC/10-300 VDC                      |
| RATED OPERATIONAL CURRENT (AC/DC) | ≤ 400 mA/≤ 300 mA                          |
| MAINS FREQUENCY                   | 50-60 Hz                                   |
| RESIDUAL CURRENT                  | ≤ 1.7 mA                                   |
| RATED INSULATION VOLTAGE          | ≤ 1.5 kV                                   |
| SURGE CURRENT                     | ≤ 8.0 A (≤ 10 ms MAX. 5 Hz)                |
| MAX. VOLTAGE DROP                 | ≤ 6.0 V                                    |
| OUTPUT FUNCTION                   | NORMALLY OPEN, 2-WIRE                      |
| SMALLEST OPERATING CURRENT        | ≥ 3.0 mA                                   |
| MAX. SWITCHING FREQUENCY          | ≤ 0.02 kHz                                 |
| HOUSING MATERIAL                  | PLASTIC, PA12-GF20                         |
| ACTIVE FACE MATERIAL              | PLASTIC, PA12-GF20                         |
| END CAP MATERIAL                  | PLASTIC, EPTR                              |
| CABLE                             | ø5.2, PVC                                  |
| SHOCK                             | 30 g, 11 ms                                |
| VIBRATION                         | 55 Hz, 1 mm AMPLITUDE<br>(IN ALL 3 PLANES) |
| DEGREE OF PROTECTION              | IP67                                       |
| SWITCHING STATUS INDICATION       | LED: RED                                   |

2.0 METER CABLE

LED

.157 [4.0]

2.362 [60.0]

2.756 [70.0]

M18x1

SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS

1.  
2.  
3.  
4.

3RD ANGLE PROJECTION

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DRFT GMB

DATE 9/19/88

APVD

SCALE 1=1.0

UNIT OF MEASUREMENT

INCH [ MILLIMETER ]

DO NOT SCALE THIS DRAWING

3000 CAMPUS DRIVE  
MINNEAPOLIS, MN 55441  
1-800-544-7769  
(763) 553-7300  
(763) 553-0708 fax  
www.turck.us

TURCK

DESCRIPTION

BI5-S18-AZ3X 60MM

IDENTIFICATION NO.

4350499

REV

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CONTACT TURCK FOR MORE INFORMATION

|     |                    |     |          |              |
|-----|--------------------|-----|----------|--------------|
| I   | UPDATE DESCRIPTION | RDS | 06/20/19 | 500000000149 |
| REV | DESCRIPTION        | BY  | DATE     | ECO NO.      |