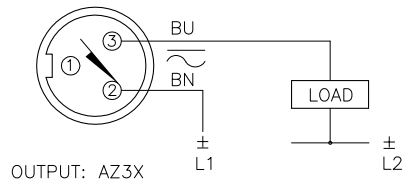
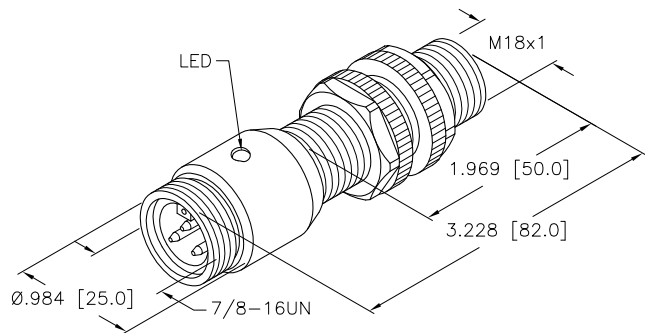


WIRING DIAGRAM



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



NOTE:  
MATERIALS:  
BARREL - PA12-GF30 PLASTIC  
LOCKNUTS - PA12-GF30 PLASTIC  
CONNECTOR - PA PLASTIC  
ADAPTER - PA PLASTIC

SPECIFICATIONS

|                                       |  |
|---------------------------------------|--|
| OPERATING VOLTAGE                     | 20-250 VAC, 10-300 VDC                     |
| LINE FREQUENCY                        | 40-60 Hz                                   |
| DIFFERENTIAL TRAVEL (HYSTERESIS)      | 3-15% (5% TYPICAL)                         |
| VOLTAGE DROP ACROSS CONDUCTING SENSOR | <7.0 V at FULL RATED CURRENT               |
| OUTPUT FUNCTION                       | NORMALLY OPEN 2-WIRE AC/DC                 |
| SHORT-CIRCUIT PROTECTED               | NO   |
| CONTINUOUS LOAD CURRENT               | AC: ≤400 mA; DC: ≤300 mA                   |
| OFF-STATE (LEAKAGE) CURRENT           | <1.7 mA                                    |
| MINIMUM LOAD CURRENT                  | ≥ 5.0 mA                                   |
| INRUSH CURRENT                        | ≤ 8.0 A (≤10 ms, 5% DUTY CYCLE)            |
| TIME DELAY BEFORE AVAILABILITY        | ≤ 25 ms                                    |
| POWER-ON EFFECT                       | Per IEC 947-5-2                            |
| TRANSIENT PROTECTION                  | Per EN 60947-5-2                           |
| OPERATING TEMPERATURE                 | -25°C to +70°C (-13°F to +158°F)           |
| ENCLOSURE                             | MEETS NEMA 1, 3, 4, 4X, 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                      |
| RATED OPERATING DISTANCE(Sn)          | 10 mm = .394" (NOMINAL)                    |
| SWITCHING FREQUENCY                   | 20 Hz                                      |
| REPEATABILITY                         | ≤ 2% OF RATED OPERATING DISTANCE           |
| EMBEDDABLE (SHIELDED)                 | NO   |
| MATING PLUGS/CABLES                   | 3-PIN PLASTIC "MINIFAST" CONSTRUCTION      |
| LOCKNUT M18x1                         | 24.0 mm AF, 27.0 mm AC, 8.0 mm THK         |

SOURCE DRAWING - FOR REFERENCE ONLY

|                      |                                |   |          |   |                |   |          |
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| RELATED DOCUMENTS    |                                | 3RD ANGLE PROJECTION  |          | THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED. |                | <br>3000 CAMPUS DRIVE<br>MINNEAPOLIS, MN 55441<br>1-800-544-7769<br>(763) 553-7300<br>(763) 553-0708 fax<br>turck.com |          |
| 1.<br>2.<br>3.<br>4. |                                |   |          | DRFT  | GMB            | DATE  | 09/01/89 |
| MATERIAL             |                                | SEE NOTE  |          | DSGN  |                | SCALE   | 1=2.0    |
| FINISH               |                                | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY |          | UNIT OF MEASUREMENT   |                | DESCRIPTION   |          |
|                      |                                | CONTACT TURCK FOR MORE INFORMATION                              |          | INCH [ MILLIMETER ]   |                | Ni10-P18-AZ3X-B2331   |          |
|                      |                                |   |          | DO NOT SCALE THIS DRAWING   |                | IDENTIFICATION NO.  |          |
|                      |                                |   |          |   |                | T4375200  |          |
|                      |                                |   |          |   |                | REV   |          |
|                      |                                |   |          |   |                | B   |          |
| B                    | UPDATE SPEC., NOTE, NEW FORMAT | IK  | 04/05/01 | T4524   |                |   |          |
| REV                  | DESCRIPTION                    | BY  | DATE     | ECO NO.   | FILE: T4375200 |   |          |
|                      |                                |   |          |   | SHEET 1 OF 1   |   |          |