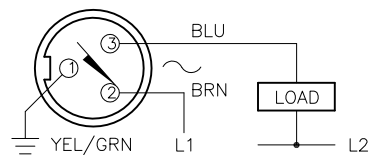


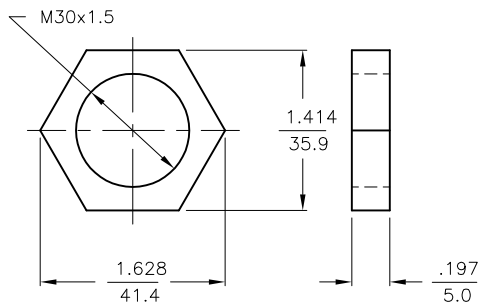
# WIRING DIAGRAMS



OUTPUT: AZ3X

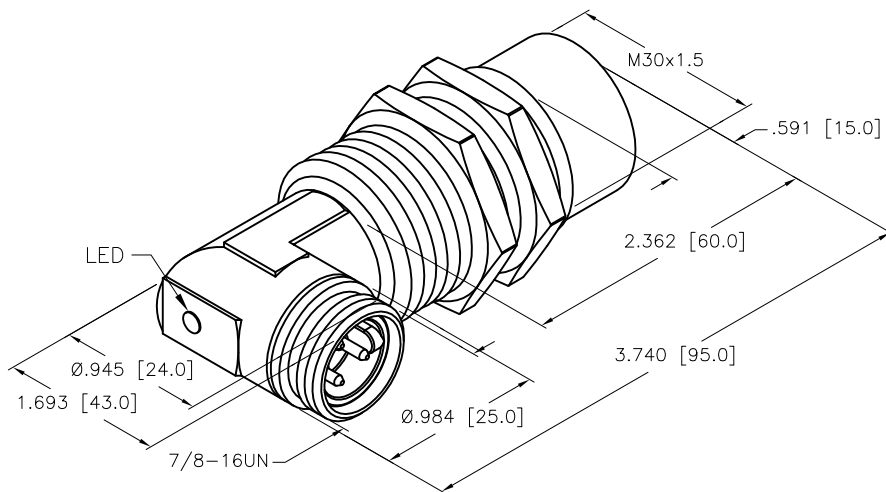
**WARNING: NO SHORT-CIRCUIT PROTECTION**  
ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.

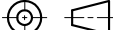
# LOCKNUT LN-M30



# SPECIFICATIONS

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| OPERATING VOLTAGE                     | 20-250 VAC/DC                              |
| LINE FREQUENCY                        | 40-60 Hz                                   |
| HYSTERESIS                            | 3-15%                                      |
| VOLTAGE DROP ACROSS CONDUCTING SENSOR | ≤7.0 V at 500 mA                           |
| OUTPUT FUNCTION -RZ                   | NORMALLY OPEN<br>2-WIRE AC SELF-CONTAINED  |
| SHORT-CIRCUIT PROTECTED               | NO                                         |
| CONTINUOUS LOAD CURRENT               | ≤500 mA                                    |
| RESIDUAL CURRENT                      | ≤1.7 mA                                    |
| MINIMUM LOAD CURRENT                  | ≥5.0 mA                                    |
| INRUSH CURRENT                        | ≤8.0 (≤10 ms/5 Hz)                         |
| TIME DELAY BEFORE AVAILABILITY        | ≤25 ms                                     |
| POWER-ON EFFECT PROTECTION            | INCORPORATED                               |
| PROTECTION AGAINST TRANSIENTS         | 5 kV, 10 ms, 10 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<br>(IN ALL 3 PLANES) |
| LED FUNCTION                          | RED: OUTPUT ENERGIZED                      |
| SENSING RANGE                         | 15 mm = .591"                              |
| SWITCHING FREQUENCY                   | 20 Hz                                      |
| REPEATABILITY                         | ≤2% RATED OPERATING DISTANCE               |
| SHIELDED                              | NO                                         |



|                                                           |                                                                                       |                                                                                                                                              |                                                |                                                                                                                                                       |          |                                        |              |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|--------------|
| RELATED DOCUMENTS<br><br>1.<br><br>2.<br><br>3.<br><br>4. | 3RD ANGLE<br>PROJECTION                                                               | THIS DRAWING IS<br>CONFIDENTIAL AND THE<br>PROPERTY OF TURCK<br>INC. USE OF THIS<br>DOCUMENT WITHOUT<br>WRITTEN PERMISSION IS<br>PROHIBITED. |                                                | <div>TURCK</div> <div>3000 CAMPUS DRIVE<br/>MINNEAPOLIS, MN 55441<br/>1-800-544-7769<br/>(763) 553-7300<br/>(763) 553-0708 fax<br/>www.turck.us</div> |          |                                        |              |
|                                                           |  |                                                                                                                                              |                                                |                                                                                                                                                       |          |                                        |              |
|                                                           |                                                                                       |                                                                                                                                              |                                                |                                                                                                                                                       |          |                                        |              |
|                                                           |                                                                                       |                                                                                                                                              |                                                |                                                                                                                                                       |          |                                        |              |
| MATERIAL<br><br>BRASS BARREL                              | ALL DIMENSIONS<br>DISPLAYED ON THIS<br>DRAWING ARE FOR<br>REFERENCE ONLY              | DRFT                                                                                                                                         | GMB                                            | DATE                                                                                                                                                  | 11/23/88 | DESCRIPTION<br><br>NI15-G30-AZ3X-B1431 |              |
|                                                           |                                                                                       | APVD                                                                                                                                         |                                                | SCALE                                                                                                                                                 | 1=1.3    |                                        |              |
| FINISH<br><br>COPPER,NICKEL,<br>CHROME PLATING            |                                                                                       | CONTACT TURCK<br>FOR MORE<br>INFORMATION                                                                                                     | UNIT OF MEASUREMENT<br><br>INCH [ MILLIMETER ] |                                                                                                                                                       |          | IDENTIFICATION NO.<br><br>4372700      | REV<br><br>G |
|                                                           |                                                                                       |                                                                                                                                              | DO NOT SCALE THIS DRAWING                      |                                                                                                                                                       |          | FILE: 4372700                          | SHEET 1 OF 1 |

|     |                                            |     |          |          |
|-----|--------------------------------------------|-----|----------|----------|
| G   | UPDATE ID NUMBER PER HARMONIZATION PROJECT | CBM | 11/06/17 |          |
| REV | DESCRIPTION                                | BY  | DATE     | ECO. NO. |