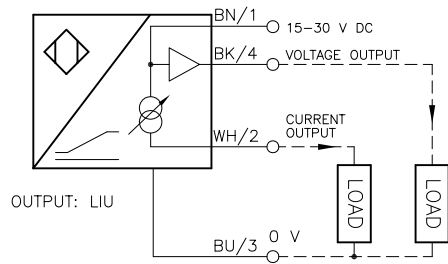
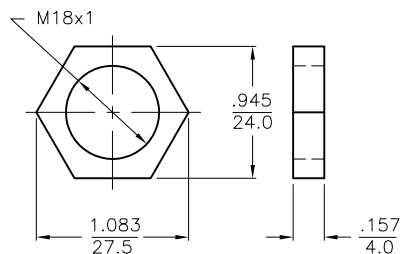


# WIRING DIAGRAM



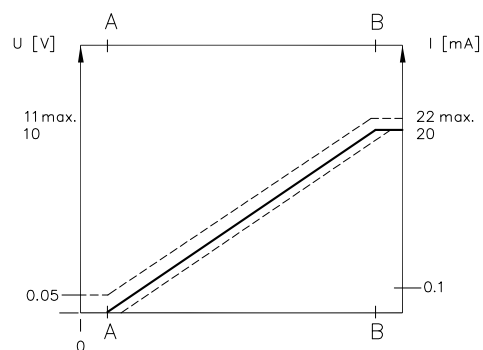
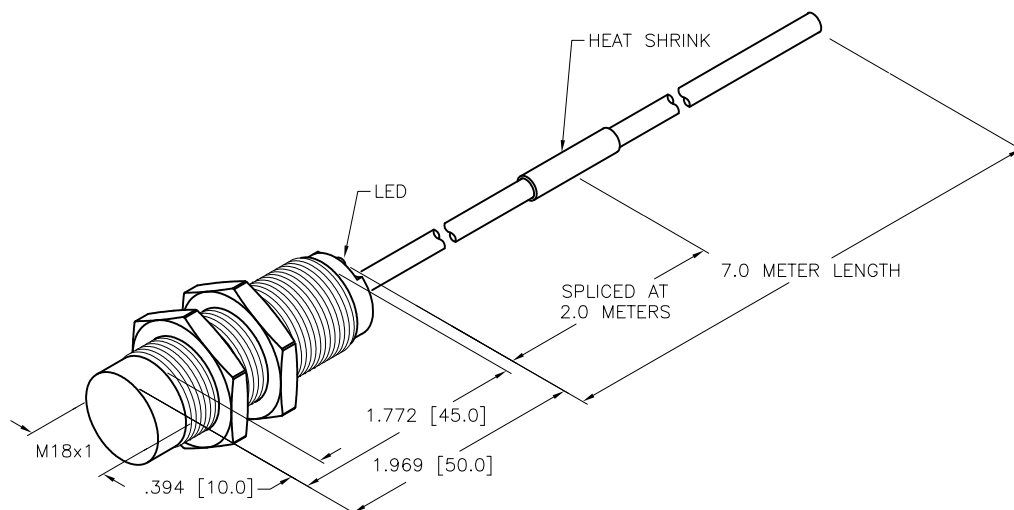
SHORT-CIRCUIT AND OVERLOAD PROTECTED

# LOCKNUT LN-M18

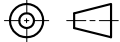


# SPECIFICATIONS

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| MEASURING RANGE [A...B]         | 1-5 mm                                                                 |
| MOUNTING MODE                   | NON-FLUSH                                                              |
| MIN. REPEAT ACCURACY            | ≤1.0% of Measuring Range [A-B]<br>≤0.5%, After a Warm-Up time of 0.5 h |
| REPRODUCIBILITY                 | ≤40 μm<br>≤20 μm, After a Warm-Up time of 0.5 h                        |
| LINEAR DEVIATION                | ≤3.0% OF FULL SCALE                                                    |
| MAX. RELATIVE TEMPERATURE DRIFT | ≤ ± 0.06%/K                                                            |
| OPERATING TEMPERATURE           | -25°C to +70°C (-13°F to +158°F)                                       |
| OPERATING VOLTAGE               | 15-30 VDC                                                              |
| RESIDUAL RIPPLE                 | ≤10%                                                                   |
| NO-LOAD CURRENT                 | ≤ 8 mA                                                                 |
| RATED INSULATION VOLTAGE        | ≤ 0.5 kV                                                               |
| SHORT-CIRCUIT PROTECTED         | YES                                                                    |
| WIRE-BREAK PROTECTION           | INCORPORATED                                                           |
| REVERSE POLARITY PROTECTION     | INCORPORATED                                                           |
| OUTPUT FUNCTION                 | 4-WIRE, ANALOG OUTPUT                                                  |
| VOLTAGE OUTPUT                  | 0-10 V                                                                 |
| CURRENT OUTPUT                  | 0-20 mA                                                                |
| LOAD RESISTANCE VOLTAGE OUTPUT  | ≥ 4.7 kΩ                                                               |
| LOAD RESISTANCE CURRENT OUTPUT  | ≤ 0.4 kΩ                                                               |
| MEASURING SEQUENCE FREQUENCY    | 100 Hz                                                                 |
| OUTPUT RECOVERY TIME            | ≤ 12 ms                                                                |
| SENSOR HOUSING MATERIAL/PLATING | BRASS/CHROME                                                           |
| SENSOR ACTIVE FACE MATERIAL     | PLASTIC, PA12-GF30                                                     |
| SENSOR END CAP MATERIAL         | PLASTIC, EPTR                                                          |
| CABLE                           | ø5.2, PVC                                                              |
| VIBRATION RESISTANCE            | 55 Hz (IN ALL 3 PLANES)                                                |
| SHOCK RESISTANCE                | 30 g, 11 ms                                                            |
| DEGREE OF PROTECTION            | IP 67                                                                  |



# SOURCE DRAWING - FOR REFERENCE ONLY

|                                                           |                                                                 |                                                                                       |                                                |                                                                                                                            |                                                                                       |                                   |                                                                                                                      |                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| RELATED DOCUMENTS<br><br>1.<br><br>2.<br><br>3.<br><br>4. | 3RD ANGLE PROJECTION                                            |  |                                                | THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED. |  |                                   | 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 |                                           |
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|                                                           |                                                                 |                                                                                       |                                                |                                                                                                                            |                                                                                       |                                   |                                                                                                                      |                                           |
|                                                           |                                                                 |                                                                                       |                                                |                                                                                                                            |                                                                                       |                                   |                                                                                                                      |                                           |
| MATERIAL<br><br>SEE NOTES                                 | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY | DRFT                                                                                  | RDS                                            | DATE                                                                                                                       | 01/08/13                                                                              |                                   |                                                                                                                      | DESCRIPTION<br><br>N18-M18-LIU 7M SPLICED |
| APVD                                                      |                                                                 | A.F.                                                                                  | SCALE                                          | 1=1.3                                                                                                                      |                                                                                       |                                   |                                                                                                                      |                                           |
| FINISH<br><br>SEE NOTES                                   |                                                                 | CONTACT TURCK FOR MORE INFORMATION                                                    | UNIT OF MEASUREMENT<br><br>INCH [ MILLIMETER ] |                                                                                                                            |                                                                                       | IDENTIFICATION NO.<br><br>1536397 |                                                                                                                      | REV<br><br>B                              |
|                                                           |                                                                 | DO NOT SCALE THIS DRAWING                                                             |                                                |                                                                                                                            | FILE: 1536397                                                                         |                                   | SHEET 1 OF 1                                                                                                         |                                           |

|     |                                            |     |          |          |
|-----|--------------------------------------------|-----|----------|----------|
| B   | UPDATE ID NUMBER PER HARMONIZATION PROJECT | CBM | 01/02/18 |          |
| REV | DESCRIPTION                                | BY  | DATE     | ECO. NO. |