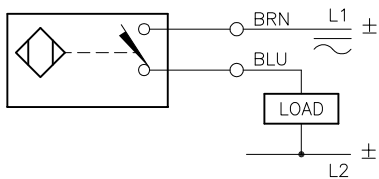
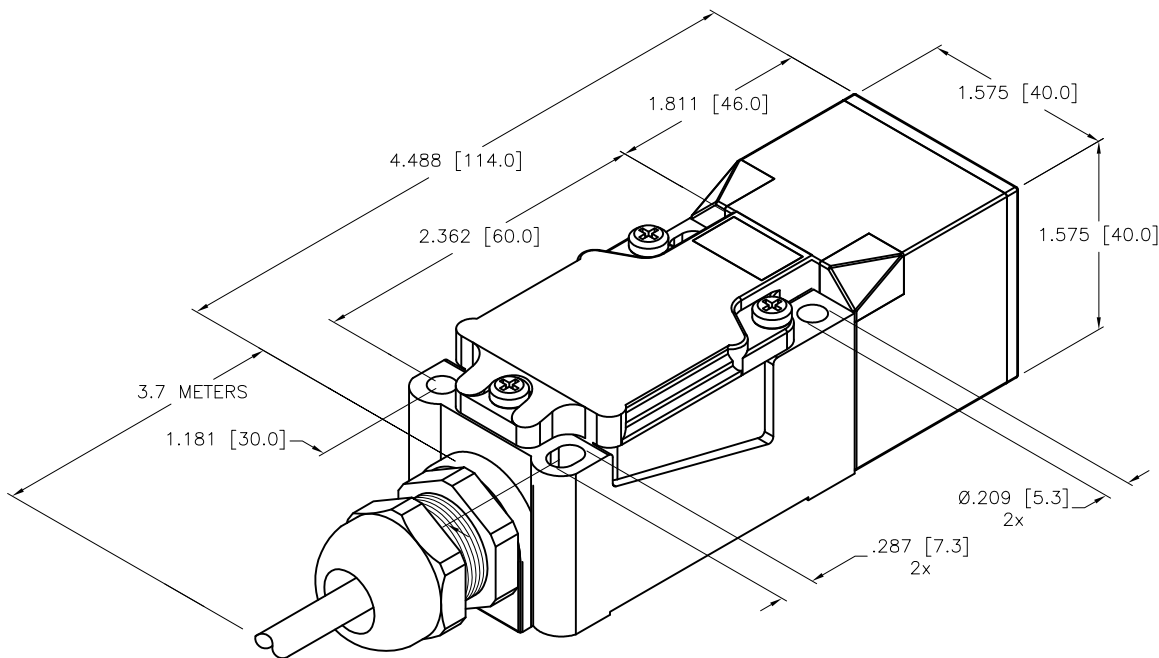


### WIRING DIAGRAM



SHORT-CIRCUIT AND OVERLOAD PROTECTED




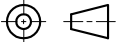
### SPECIFICATIONS

|   |   |
|---|---|
| OPERATING VOLTAGE                       | 20-250 VAC/10-300 VDC   |
| LINE FREQUENCY                          | >50-<60 Hz  |
| HYSTERESIS (DIFFERENTIAL TRAVEL)        | 3-15% (5% TYPICAL)  |
| VOLTAGE DROP ACROSS CONDUCTING SENSOR   | ≤ 6.0 V at 400 mA   |
| OUTPUT FUNCTION                         | CONNECTION PROGRAMMABLE<br>NORMALLY OPEN OR NORMALLY CLOSED                           |
| SHORT-CIRCUIT PROTECTED                 | YES   |
| TRIGGER CURRENT FOR OVERLOAD PROTECTION | ≥ 500 mA  |
| CONTINUOUS LOAD CURRENT                 | ≤ 400 mA  |
| LEAKAGE (OFF-STATE) CURRENT             | ≤ 1.7 mA  |
| MINIMUM LOAD CURRENT                    | ≥ 3.0 mA  |
| INRUSH CURRENT                          | ≤ 3.0 A (≤ 20 ms/5 Hz)  |
| TIME DELAY BEFORE AVAILABILITY          | ≤ 30 ms   |
| POWER-ON EFFECT PROTECTION              | INCORPORATED  |
| PROTECTION AGAINST TRANSIENTS           | 5 kV, 10ms, 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                            | GREEN: STEADY = POWER ON<br>FLASHING = SHORT-CIRCUIT WARNING<br>RED: OUTPUT ENERGIZED |
| SENSING RANGE                           | 15 mm = .591" (NOMINAL)   |
| SWITCHING FREQUENCY                     | 0.02 kHz  |
| REPEATABILITY                           | ≤ 2% of NOMINAL SENSING RANGE   |
| SHIELDED                                | YES   |
| CABLE                                   | 20 AWG, GREY  |

SOURCE DRAWING - FOR REFERENCE ONLY

NOTES:

- "PFNO" DESIGNATES FULLY POTTED CHAMBER, NORMALLY OPEN OUTPUT. FRONT FACE SENSING.

|                      |  |   |          |  |               |   |              |
|----------------------|--|---|----------|--|---------------|---|--------------|
| RELATED DOCUMENTS    |  | 3RD ANGLE PROJECTION  |          | THIS DRAWING IS CONFIDENTIAL AND THE 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>www.turck.us |              |
| 1.<br>2.<br>3.<br>4. |  |  |          | DRFT   | RDS           | DATE  | 06/18/08     |
| MATERIAL             |  | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY                       |          | APVD   |               | SCALE   | NONE         |
| FINISH               |  | CONTACT TURCK FOR MORE INFORMATION  |          | UNIT OF MEASUREMENT  |               | DESCRIPTION   |              |
|                      |  |   |          | INCH [ MILLIMETER ]  |               | BI15-CP40-FDZ30X2/PFNO 3.7M   |              |
|                      |  |   |          | DO NOT SCALE THIS DRAWING  |               | IDENTIFICATION NO.  | REV          |
|                      |  |   |          |  |               | 4224184   | C            |
| C                    | UPDATE ID NUMBER PER HARMONIZATION PROJECT | CBM   | 11/06/17 |  |               |   |              |
| REV                  | DESCRIPTION                                | BY  | DATE     | ECO NO.  | FILE: 4224184 |   | SHEET 1 OF 1 |