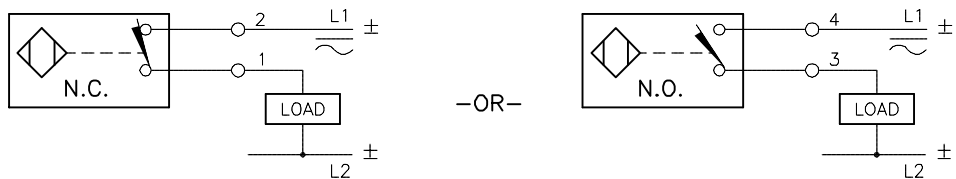
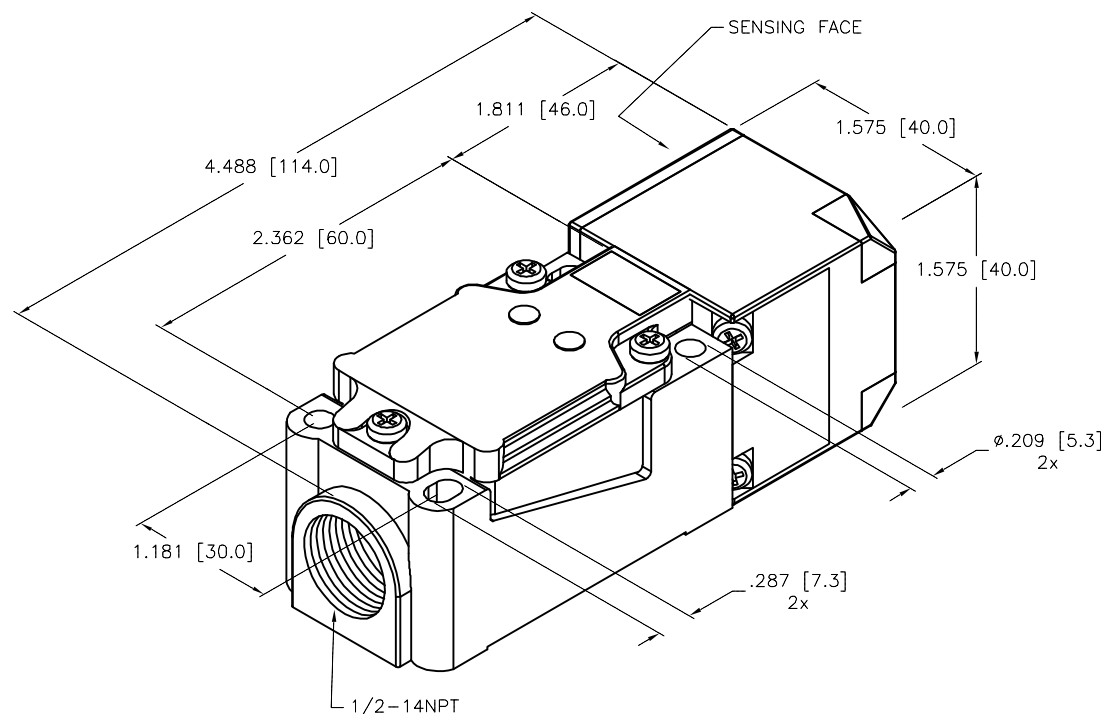


# WIRING DIAGRAMS



SHORT-CIRCUIT AND OVERLOAD PROTECTED



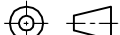
# SPECIFICATIONS

|                              |                                           |
|------------------------------|-------------------------------------------|
| RATED OPERATING DISTANCE     | 15mm = .591"                              |
| MOUNTING MODE                | FLUSH                                     |
| TEMPERATURE DRIFT            | ≤ ± 10%                                   |
| HYSTERESIS                   | 3-15%                                     |
| MIN. REPEAT ACCURACY         | ≤ 2%                                      |
| OPERATING TEMPERATURE        | -40°C to +70°C (-40°F to +158°F)          |
| OUTPUT FUNCTION              | 2-WIRE, PROGRAMMABLE                      |
| OPERATIONAL VOLTAGE          | 20-250 V                                  |
| RATED OPERATIONAL CURRENT    | ≤ 400 mA                                  |
| FREQUENCY                    | ≥ 50 Hz ≤ 60 Hz                           |
| RESIDUAL CURRENT             | ≤ 1.7 mA                                  |
| RATED INSULATION VOLTAGE     | ≤ 1.5 kV                                  |
| SURGE CURRENT                | ≤ 3.0 A (≤ 20 ms MAX. 5 Hz)               |
| SHORT-CIRCUIT PROTECTED      | YES                                       |
| MAX. VOLTAGE DROP            | ≤ 6.0 V                                   |
| WIRE BREAKAGE PROTECTION     | INCORPORATED                              |
| REVERSE POLARITY PROTECTION  | INCORPORATED                              |
| SMALLEST OPERATING CURRENT   | ≤ 3.0 mA                                  |
| MAX. SWITCHING FREQUENCY     | ≤ 0.02 kHz                                |
| HOUSING MATERIAL             | PLASTIC, PBT-GF30-V0, BLACK               |
| CONNECTION                   | TERMINAL CHAMBER                          |
| VIBRATION RESISTANCE         | <55 Hz, <1 mm AMPLITUDE (IN ALL 3 PLANES) |
| SHOCK RESISTANCE             | <30 g, <11 ms                             |
| DEGREE OF PROTECTION         | IP68                                      |
| OPERATING VOLTAGE INDICATION | LED: GREEN                                |
| SWITCHING STATUS INDICATION  | LED: YELLOW                               |

## NOTES:

1. "/S10" DESIGNATES 1/2-14 NPT TERMINAL CHAMBER THREAD.
2. "/S97" DESIGNATES LOW RATED OPERATING TEMPERATURE: -40°C
3. "/L" INDICATES THAT SENSING FACE IS ROTATED LEFT.

## SOURCE DRAWING - FOR REFERENCE ONLY

|                                                           |                                                                                       |                                                                                                                                       |                                                                                 |                                                                                                                                                                 |               |                                                |              |     |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|--------------|-----|
| RELATED DOCUMENTS<br><br>1.<br><br>2.<br><br>3.<br><br>4. | 3RD ANGLE PROJECTION                                                                  | <div>THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.</div> |                                                                                 | <div><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></div> |               |                                                |              |     |
|                                                           |  |                                                                                                                                       |                                                                                 |                                                                                                                                                                 |               |                                                |              |     |
|                                                           |                                                                                       |                                                                                                                                       |                                                                                 |                                                                                                                                                                 |               |                                                |              |     |
|                                                           |                                                                                       |                                                                                                                                       |                                                                                 |                                                                                                                                                                 |               |                                                |              |     |
| MATERIAL                                                  | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY                       | DRFT                                                                                                                                  | RDS                                                                             | DATE                                                                                                                                                            | 10/03/11      | DESCRIPTION<br><br>BI15-CP40-FDZ30X2/S10-S97/L |              |     |
|                                                           |                                                                                       | APVD                                                                                                                                  |                                                                                 | SCALE                                                                                                                                                           | 1=1.3         |                                                |              |     |
| FINISH                                                    |                                                                                       | CONTACT TURCK FOR MORE INFORMATION                                                                                                    | UNIT OF MEASUREMENT<br><br>INCH [ MILLIMETER ]<br><br>DO NOT SCALE THIS DRAWING |                                                                                                                                                                 |               | IDENTIFICATION NO.                             |              | REV |
|                                                           |                                                                                       |                                                                                                                                       |                                                                                 |                                                                                                                                                                 |               | 4226693                                        |              | D   |
|                                                           |                                                                                       |                                                                                                                                       |                                                                                 |                                                                                                                                                                 | FILE: 4226693 |                                                | SHEET 1 OF 1 |     |

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|-----|--------------------|-----|----------|--------------|
| D   | UPDATE DESCRIPTION | RDS | 10/16/19 | 500000000579 |
| REV | DESCRIPTION        | BY  | DATE     | ECO NO.      |