



| SPECIFICA                       | CATIONS  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|
| RATED OPERATING DISTANCE        | 8mm = .315" (NOMINAL)  |  |  |  |  |  |
| MOUNTING MODE                   | FLUSH $\leq 2\%$ $\leq \pm 10\%$ $3-15\%$ $-40^{\circ}\text{C to } +100^{\circ}\text{C } (-40^{\circ}\text{F to } +212^{\circ}\text{F})$ |  |  |  |  |  |
| MIN. REPEAT ACCURACY            |  |  |  |  |  |  |
| TEMPERATURE DRIFT               |  |  |  |  |  |  |
| HYSTERESIS (SWITCHING DISTANCE) |  |  |  |  |  |  |
| OPERATING TEMPERATURE           |  |  |  |  |  |  |
| RATED OPERATIONAL VOLTAGE       | 10-30 VDC  |  |  |  |  |  |
| MAX. RIPPLE                     | ≤ 10%  |  |  |  |  |  |
| RATED OPERATIONAL CURRENT       | ≤ 200 mA   |  |  |  |  |  |
| NO-LOAD CURRENT                 | ≤ 15 mA  |  |  |  |  |  |
| MAX. OFF-STATE CURRENT          | ≤ 0.1 mA   |  |  |  |  |  |
| RATED INSULATION VOLTAGE        | ≤ 0.5 kV  INCORPORATED  ≤ 1.8 V  INCORPORATED  INCORPORATED  |  |  |  |  |  |
| SHORT-CIRCUIT PROTECTION        |  |  |  |  |  |  |
| MAX. VOLTAGE DROP               |  |  |  |  |  |  |
| WIRE BREAKAGE PROTECTION        |  |  |  |  |  |  |
| REVERSE POLARITY PROTECTION     |  |  |  |  |  |  |
| OUTPUT FUNCTION                 | 3-WIRE, NORMALLY OPEN, NPN   |  |  |  |  |  |
| MAX. SWITCHING FREQUENCY        | ≤ 1.5 kHz  |  |  |  |  |  |
| HOUSING MATERIAL                | METAL, A4 1.4404 (AISI 316L)   |  |  |  |  |  |
| ACTIVE FACE                     | PLASTIC, LCP-GF30  |  |  |  |  |  |
| CONNECTOR HOUSING MATERIAL      | PLASTIC, PP  |  |  |  |  |  |
| CONNECTOR                       | M12x1, FIXCON COMPATIBLE   |  |  |  |  |  |
| VIBRATION RESISTANCE            | 55 Hz, 1 mm AMPLITUDE<br>(IN ALL 3 PLANES)   |  |  |  |  |  |
| SHOCK RESISTANCE                | 30 g, 11 ms  |  |  |  |  |  |
| DEGREE OF PROTECTION            | IP68/IP69K   |  |  |  |  |  |
| SWITCHING STATUS INDICATION     | LED, YELLOW  |  |  |  |  |  |

## SOURCE DRAWING - FOR REFERENCE ONLY

|     |                                |    |         |                           | RELATED DOCUMENTS   | 3RD ANGLE<br>PROJECTION             | THIS DRAWING IS PROPERTY OF   |                |   | 3000 CAMPUS<br>MINNEAPOLIS, MI |          |
|-----|--------------------------------|----|---------|---------------------------|---------------------|-------------------------------------|---|----------------|---|--------------------------------|----------|
|     |                                |    |         |                           | 2.<br>3.<br>4.      | ♦ ←                                 | TURCK INC. USE OF<br>THIS DOCUMENT<br>WITHOUT WRITTEN<br>PERMISSION IS<br>PROHIBITED. | High Technolog | High Technology Sensors and Automation Controls (763) (1-800- |                                |          |
|     |                                |    |         |                           | MATERIAL            |                                     |   | DATE 07/25/08  | BI 8U-EM18WD-AN6X-H11   |                                | 41       |
|     |                                |    |         |                           |                     | ALL DIMENSIONS<br>DISPLAYED ON THIS | DSGN  | SCALE 1=1.0    |   | 11107                          |          |
|     |                                |    |         |                           | FINISH              | DRAWING ARE FOR REFERENCE ONLY      | UNIT OF MEASUREMENT   |                | IDENTIFICATION NO.  |                                | REV      |
| ٨   | A DRAWING RELEASE RDS 07/25/08 |    | TINISTI | CONTACT TURCK<br>FOR MORE | INCH [ MILLIMETER ] |                                     | M1634839  |                | A   |                                |          |
| _A  | DRAWING RELEASE                |    |         |                           |                     | INFORMATION                         |   |                |   |                                |          |
| REV | DESCRIPTION                    | BY | DATE    | ECO NO.                   |                     |                                     | DO NOT SCALE  | THIS DRAWING   | FILE: M1634839  | SHEET                          | T 1 OF 1 |