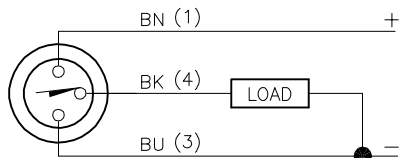


### WIRING DIAGRAM

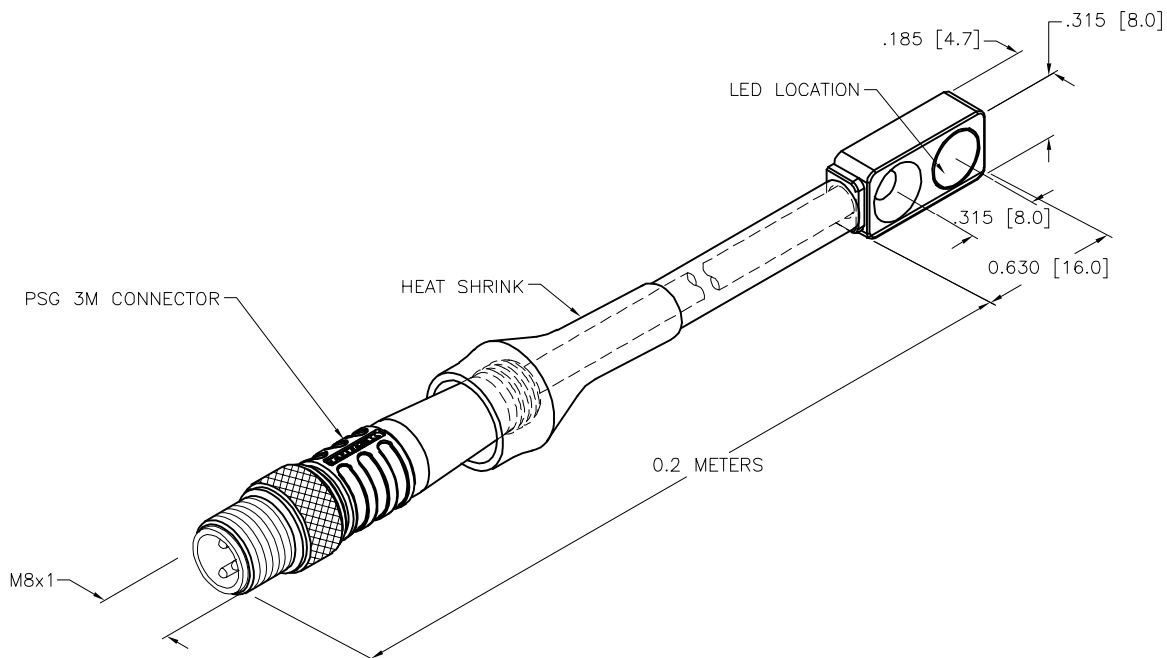


OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

### SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| RATED OPERATING DISTANCE    | 2mm = .079" (NOMINAL)                   |
| MOUNTING MODE               | FLUSH                                   |
| TEMPERATURE DRIFT           | ≤ ±10%                                  |
| HYSTERESIS                  | 3-15%                                   |
| MIN. REPEAT ACCURACY        | ≤ 2%                                    |
| OPERATING TEMPERATURE       | 0°C to +85°C (+32°F to +185°F)          |
| RATED OPERATIONAL VOLTAGE   | 10-30 VDC                               |
| RESIDUAL RIPPLE             | ≤ 10%                                   |
| RATED OPERATIONAL CURRENT   | ≤ 100 mA                                |
| NO-LOAD CURRENT             | ≤ 15 mA                                 |
| RESIDUAL CURRENT            | ≤ 0.1 mA                                |
| RATED INSULATION VOLTAGE    | ≤ 0.5 kV                                |
| SHORT-CIRCUIT PROTECTION    | YES, CYCLIC                             |
| MAX. VOLTAGE DROP           | ≤ 1.8 V                                 |
| WIRE BREAKAGE PROTECTION    | INCORPORATED                            |
| REVERSE POLARITY PROTECTION | INCORPORATED                            |
| OUTPUT FUNCTION             | 3-WIRE, NORMALLY OPEN, PNP              |
| MAX. SWITCHING FREQUENCY    | ≤ 1 kHz                                 |
| HOUSING MATERIAL            | METAL, GD-ZN/NICKEL PLATED              |
| ACTIVE FACE                 | PLASTIC, PA-12                          |
| CABLE                       | Ø3.0, TPU/GRAY                          |
| VIBRATION RESISTANCE        | 55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES) |
| SHOCK RESISTANCE            | 30 g, 11 ms                             |
| DEGREE OF PROTECTION        | IP67                                    |
| SWITCHING STATUS INDICATION | LED, YELLOW                             |



#### NOTES:

- LED LOCATION IS AT THE EDGE OF THE SENSING FACE.
- "/S1154" DESIGNATES WELDGUARD-COATED SENSOR TO BE USED AS BASE UNIT. USE PTFE TUBING OVER SENSOR CABLE.
  - PTFE TUBING STARTS AT SENSOR END, AND GETS CAPTURED IN THE CONNECTOR MOLDING MATERIAL.
  - SLIDE 35MM OF SHRINK TUBING TO OVERLAP CONNECTOR MOLD BODY AND PTFE TUBING.
- "/SV" DESIGNATES SPECIAL PACKAGING FOR VENDING MACHINES.

**SOURCE DRAWING - FOR REFERENCE ONLY**

|   |                          |  |                           |  |   |
|---|--------------------------|--|---------------------------|--|---|
| RELATED DOCUMENTS<br>1.<br>2.<br>3.<br>4. | 3RD ANGLE PROJECTION<br> | 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 |   |
|   | MATERIAL                 | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY<br><br>CONTACT TURCK FOR MORE INFORMATION                  | DRFT NF                   | DATE 07/23/19  | DESCRIPTION<br>B12-Q4.7-AP6X-0.2-PSG3M/S1154/SV |
| FINISH                                    | APVD A.F.                |  | SCALE 1=.8                |  |   |
|   |                          | UNIT OF MEASUREMENT<br><b>INCH [ MILLIMETER ]</b>  |                           | IDENTIFICATION NO.<br>100008615  | REV<br>A  |
| A DRAWING RELEASE                         |                          | NF 07/31/19  | DO NOT SCALE THIS DRAWING |  | FILE: 100008615                                 |
| REV DESCRIPTION                           | BY DATE ECO NO.          |  |                           | SHEET 1 OF 1   |   |