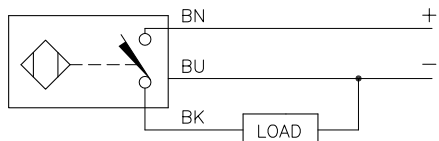
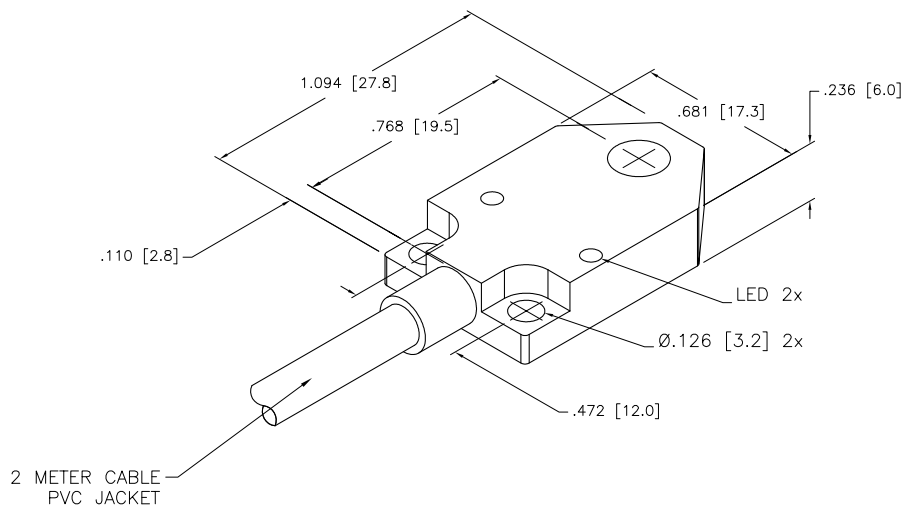


# WIRING DIAGRAM



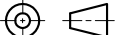
OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



# SPECIFICATIONS

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| OPERATING VOLTAGE                       | 10–30 VDC                                   |
| RIPPLE                                  | ≤ 10%                                       |
| DIFFERENTIAL TRAVEL (HYSTERESIS)        | 3–15% (5% TYPICAL)                          |
| VOLTAGE DROP ACROSS CONDUCTING SENSOR   | ≤ 1.8 V at 100 mA                           |
| OUTPUT FUNCTION                         | NORMALLY OPEN<br>3-WIRE DC SELF-CONTAINED   |
| TTL COMPATIBLE                          | NO                                          |
| TRIGGER CURRENT FOR OVERLOAD PROTECTION | ≥ 220 mA                                    |
| CONTINUOUS LOAD CURRENT                 | ≤ 200 mA                                    |
| OFF-STATE (LEAKAGE) CURRENT             | < 10μ A                                     |
| NO-LOAD CURRENT                         | ≤ 15 mA                                     |
| TIME DELAY BEFORE AVAILABILITY          | ≤ 8 ms                                      |
| POWER-ON EFFECT PROTECTION              | INCORPORATED                                |
| REVERSE POLARITY PROTECTION             | INCORPORATED                                |
| WIRE-BREAK PROTECTION                   | INCORPORATED                                |
| PROTECTION AGAINST TRANSIENTS           | 2 kV, 1 ms, 1 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                            | YELLOW: OUTPUT ENERGIZED<br>GREEN: POWER ON |
| SENSING RANGE                           | 3 mm = .118" (NOMINAL)                      |
| SWITCHING FREQUENCY                     | 1000 Hz                                     |
| REPEATABILITY                           | ≤ 2% of RATED OPERATING DISTANCE            |
| EMBEDDABLE (SHIELDED)                   | YES                                         |

|                       |  |                                                                                       |  |                                                                                                                  |  |                                                                                                                                   |  |                 |  |                    |  |
|-----------------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|--------------------|--|
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| 1.<br>2.<br>3.<br>4.  |  |  |  |                                                                                                                  |  |                                                                                                                                   |  |                 |  |                    |  |
| MATERIAL              |  | ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY                       |  | DRFT                                                                                                             |  | SWC                                                                                                                               |  | DATE            |  | DESCRIPTION        |  |
| PA 12-GF30<br>PLASTIC |  |                                                                                       |  | DSGN                                                                                                             |  | SCALE                                                                                                                             |  | 8/11/93<br>1=.7 |  |                    |  |
| FINISH                |  |                                                                                       |  | CONTACT TURCK FOR MORE INFORMATION                                                                               |  | UNIT OF MEASUREMENT                                                                                                               |  |                 |  | IDENTIFICATION NO. |  |
|                       |  | INCH [ MILLIMETER ]                                                                   |  |                                                                                                                  |  | S1620100                                                                                                                          |  | D               |  |                    |  |
|                       |  |                                                                                       |  | DO NOT SCALE THIS DRAWING                                                                                        |  |                                                                                                                                   |  | FILE: S1620100  |  | SHEET 1 OF 1       |  |