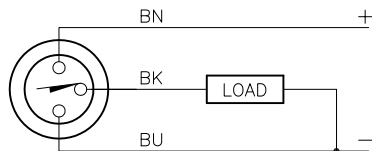
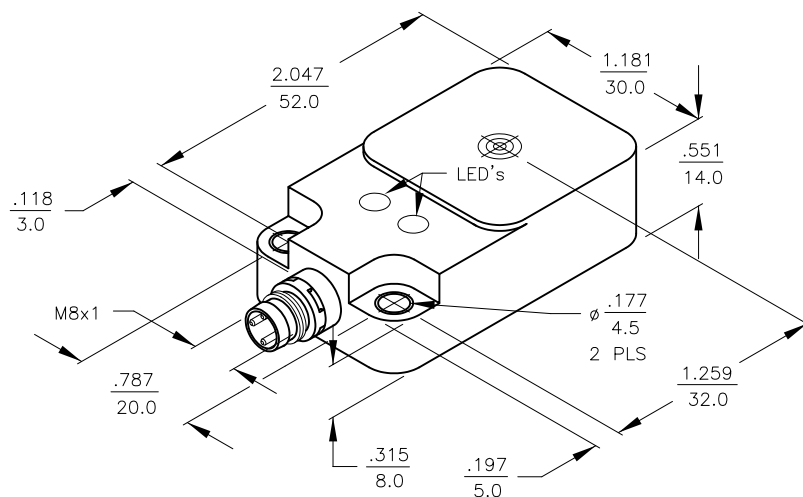


WIRING DIAGRAM



OUTPUT: AP6X2

SHORT-CIRCUIT AND OVERLOAD PROTECTED

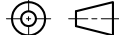


SPECIFICATIONS

| | |
|---|--|
| OPERATING VOLTAGE | 10–30 VDC |
| RIPPLE | ≤10% |
| DIFFERENTIAL TRAVEL (HYSTERESIS) | 3–15% (5% TYPICAL) |
| VOLTAGE DROP ACROSS CONDUCTING SENSOR | ≤1.8 V at 200 mA |
| OUTPUT FUNCTION | NORMALLY OPEN 3-WIRE DC SELF-CONTAINED |
| 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 | EN 60947-5-2 |
| ENCLOSURE | MEETS IP67 |
| OPERATING TEMPERATURE | -25°C to +70°C (-13°F to +158°F) WITH ±10% DRIFT -30°C to +85°C (-22°F to +185°F) WITH ±15% DRIFT |
| SHOCK | 30 g, 11 ms |
| VIBRATION | 55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES) |
| LED FUNCTION | GREEN: POWER ON YELLOW: OUTPUT ENERGIZED |
| RATED OPERATING DISTANCE(Sn) | 10 mm = .394" (NOMINAL) |
| SWITCHING FREQUENCY | 250 Hz |
| REPEATABILITY | ≤2% of RATED OPERATING DISTANCE |
| EMBEDDABLE (SHIELDED) | YES |
| MATING PLUGS/CABLES | 3-PIN "PICOFAST" CONSTRUCTION |

NOTES:

1. UPROX HAS WELD FIELD IMMUNITY, SENSOR IS SUITABLE FOR USE ON RESISTANCE MACHINES.

| | | | | | |
|--|--|---|--------------|---|----------|
| RELATED DOCUMENTS 1. 2. 3. 4. | 3RD ANGLE PROJECTION | THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED. | | <div>TURCK INC</div> <div>High Technology Sensors and Automation Controls</div> <div>3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax turck.com</div> | |
| |  | | | | |
| MATERIAL PBT-GF30-VO PLASTIC HOUSING | TOLERANCES UNLESS OTHERWISE SPECIFIED | DRFT IK | DATE 3/10/97 | DESCRIPTION Bi10U-Q14-AP6X2-V1131 | |
| | .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY | DSGN | SCALE NONE. | | |
| FINISH | | UNIT OF MEASUREMENT INCH [MILLIMETER] DO NOT SCALE THIS DRAWING | | IDENTIFICATION NO. 1608500 | |
| | | | | FILE: M1608500 | REV B |
| | | | | SHEET 1 OF | |