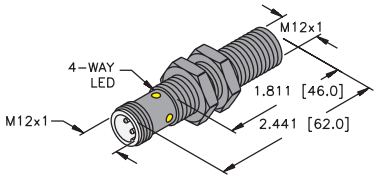
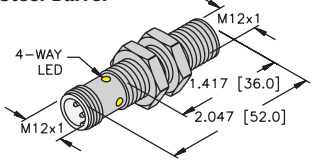
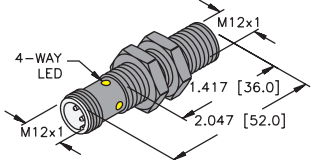
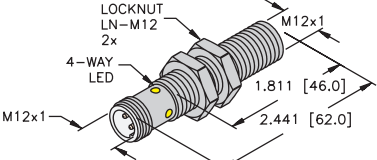
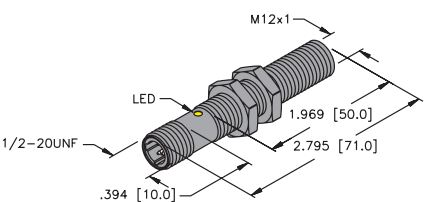


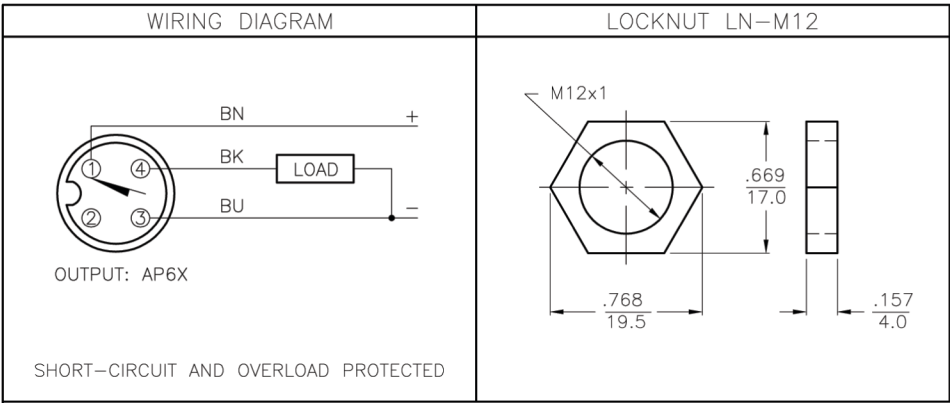


| Housing Style | Part Number | ID Number | Features | Sensing Range (mm) | Output |
|--|-----------------------------|-----------|-------------------|--------------------|--------------------------------------|
| 12 mm - Embeddable, eurofast® Connection, Extended Barrel Length, Teflon Coated Barrel  | Bi 3-MT12HE-AD4X-H1141 | T4405088 | | 3 | 2-Wire DC |
| | Bi 3-MT12HE-AD4X-H1144 | T4405089 | | 3 | |
| | Bi 3U-MT12HE-AN6X2-H1141 | M1634230 | <i>uprox</i> | 3 | 3-Wire DC NPN |
| | Bi 4-MT12HE-AN6X-H1141 | T4607197 | <i>Ext. Range</i> | 4 | |
| | Bi 3U-MT12HE-AP6X2-H1141 | M1634220 | <i>uprox</i> | 3 | 3-Wire DC PNP |
| | Bi 4-MT12HE-AP6X-H1141 | T4608093 | <i>Ext. Range</i> | 4 | |
| 12 mm - Embeddable, eurofast Connection, Stainless Steel Barrel  | Bi 3U-EM12H-AP6X-H1141 | M1634312 | <i>uprox</i> | 3 | 3-Wire DC PNP |
| | Bi 4-MT12H-AN6X-H1141 | T4607194 | <i>Ext. Range</i> | 4 | 3-Wire DC NPN |
| 12 mm - Embeddable, eurofast Connection, Teflon Coated Barrel  | Bi 3U-MT12H-AP6X-H1141 | M1634212 | <i>uprox</i> | 3 | 3-Wire DC PNP |
| | Bi 4-MT12H-AP6X-H1141 | T4607093 | <i>Ext. Range</i> | 4 | |
| | Bi 3U-EM12HE-AN6X2-H1141 | M1634311 | <i>uprox</i> | 3 | 3-Wire DC NPN |
| 12 mm - Embeddable, eurofast Connection, Extended Length Stainless Steel Barrel  | Bi 3U-EM12HE-AP6X2-H1141 | M1634310 | <i>uprox</i> | 3 | 3-Wire DC PNP |
| | Bi 2-GT12H-ADZ32X-B3131/S34 | T4205093 | <i>WFI</i> | 2 | 2-Wire AC/DC Short-Circuit Protected |
| Bi 4-GT12H-ADZ32X-B3131 | T4205097 | | 4 | | |
| 12 mm - Embeddable, microfast® Connection, Teflon Coated Barrel  | | | | | |

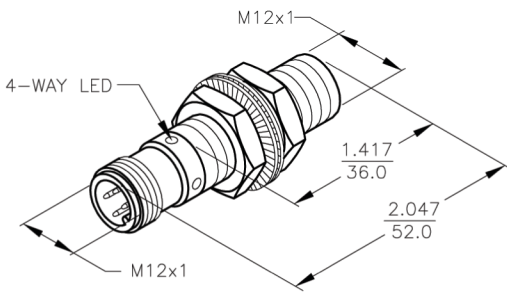


| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Face | Power LED | Output LED | Mating Cordset | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|------------------------|----------------------|------------|---------|------|-----------|------------|------------------|------------------|----------------------|
| 10-65 VDC | 1000 | ≤100 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RK 4.2T-*/S1587 | 1 | Diagram 1 |
| | 1000 | ≤100 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RK 4.23T-*/S1587 | 4 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 67 | TC | SF | GN | YE | RKC 4T-*/S1587 | 2 | Diagram 2 |
| | 2000 | ≤200 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RKC 4T-*/S1587 | 2 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 67 | TC | SF | GN | YE | RKC 4T-*/S1587 | 3 | Diagram 3 |
| | 2000 | ≤200 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RKC 4T-*/S1587 | 3 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 68 | SS | SF | N/A | YE | RKC 4T-*/S1587 | 3 | Diagram 3 |
| 10-30 VDC | 2000 | ≤200 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RKC 4T-*/S1587 | 2 | Diagram 4 |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 67 | TC | SF | N/A | YE | RKC 4T-*/S1587 | 3 | Diagram 5 |
| | 2000 | ≤200 | -25 to +70 | IP 67 | TC | SF | N/A | YE | RKC 4T-*/S1587 | 3 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 68 | SS | SF | GN | YE | RKC 4T-*/S1587 | 4 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 68 | SS | SF | GN | YE | RKC 4T-*/S1587 | 2 | |
| 20-250 VAC 10-300 VDC | 20 | ≤100 | -25 to +70 | IP 67 | TC | SF | N/A | YE | KBE 3T-*/S600 | 5 | |
| | 20 | ≤100 | -25 to +70 | IP 67 | TC | SF | N/A | YE | KBE 3T-*/S600 | 5 | |

* Length in meters.



| 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 |
| TTL COMPATIBLE | NO |
| SHORT-CIRCUIT PROTECTED | YES |
| TRIGGER CURRENT FOR OVERLOAD PROTECTION | ≥ 220 mA |
| CONTINUOUS LOAD CURRENT | ≤ 200 mA |
| OFF-STATE (LEAKAGE) CURRENT | ≤ 0.1 mA |
| NO-LOAD CURRENT | ≤ 8 mA |
| TIME DELAY BEFORE AVAILABILITY | ≤ 8 ms |
| POWER-ON EFFECT | PER IEC 947-5-2 |
| REVERSE POLARITY PROTECTION | INCORPORATED |
| WIRE-BREAK PROTECTION | INCORPORATED |
| PROTECTION AGAINST TRANSIENTS | Per EN 60947-5-2 |
| OPERATING TEMPERATURE (10% DRIFT) | -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 (IN ALL 3 PLANES) |
| LED FUNCTION | YELLOW: OUTPUT ENERGIZED |
| RATED OPERATING DISTANCE(Sn) | 4 mm = .158" (NOMINAL) |
| SWITCHING FREQUENCY | 2000 Hz |
| REPEATABILITY | ≤ 2% of RATED OPERATING DISTANCE |
| EMBEDDABLE (SHIELDED) | YES |
| MATING PLUGS/CABLES | 4-PIN "EUROFAST" CONSTRUCTION |



SOURCE DRAWING - FOR REFERENCE ONLY

NOTES:

1. MATERIALS:
 TEFLON COATED BRASS BARREL.
 CHROME PLATED BRASS CONNECTOR.
 TEFLON COATED BRASS LOCKNUTS.
 BLACK CHROMATED STEEL LOCKWASHERS.
 THERMOSET PLASTIC SENSING FACE.
2. ALL DIMENSIONAL TOLERANCES: ±1.0 mm.

| | | | | | | | |
|--------------------------------|--|---------------------------------------|--|---|----|---|----------|
| RELATED DOCUMENTS | | 3RD ANGLE PROJECTION | | THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED. | | TURCK INC High Technology Sensors and Automation Controls | |
| 1. 2. 3. 4. | | | | DRFT | JB | DATE | 06/27/00 |
| MATERIAL | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | DSGN | JB | SCALE | NONE |
| SEE NOTES | | 0.0394in [1.00mm] | | UNIT OF MEASUREMENT | | DESCRIPTION | |
| FINISH | | SEE NOTES | | INCH [MILLIMETER] | | Bi 4-MT12H-AP6X-H1141 | |
| SEE NOTES | | DO NOT SCALE THIS DRAWING | | IDENTIFICATION NO. | | REV | |
| B UPDATE DESCRIPTION AND NOTES | | JB | | T5159 | | T4607093 | |
| REV DESCRIPTION | | BY DATE ECO NO. | | FILE: T4607093 | | SHEET 1 OF 1 | |

| | | | | |
|-----|------------------------------|----|----------|---------|
| B | UPDATE DESCRIPTION AND NOTES | JB | 02/22/02 | T5159 |
| REV | DESCRIPTION | BY | DATE | ECO NO. |