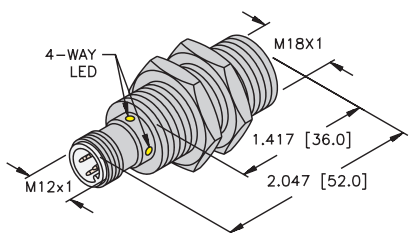
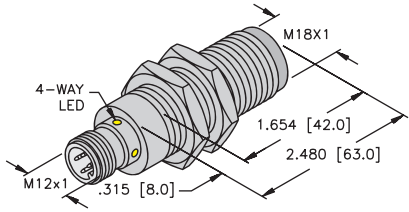
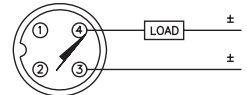
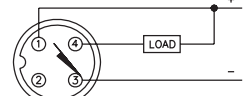
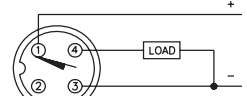
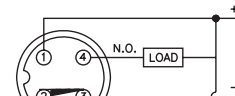
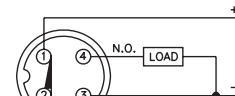
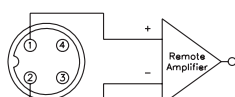
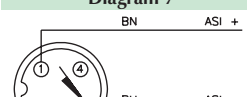
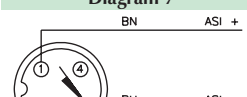


Inductive Sensors

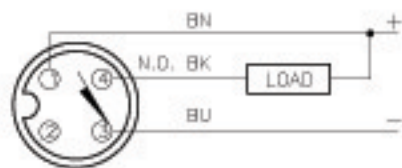


| Housing Style | Part Number | ID Number | Features | Sensing Range (mm) | Output |
|--|-----------------------------|-----------|----------------------------------|--------------------|----------------|
| 18 mm - Embeddable eurofast® Connection  | Bi 5-M18-AD4X-H1141 | T4414500 | | 5 | 2-Wire DC |
| | Bi 7-M18-AD4X-H1141 | T4414541 | <i>Extended Range</i> | 7 | |
| | Bi 5-EM18-AN6X-H1141 | T4614601 | | 5 | 3-Wire DC NPN |
| | Bi 5-M18-AN6X-H1141 | T4614600 | | 5 | |
| | Bi 5U-EM18-AN6X-H1141 | M1635350 | <i>Uprox</i> | 5 | |
| | Bi 5U-M18-AN6X-H1141 | M1635150 | <i>Uprox</i> | 5 | |
| | Bi 7-EM18WD-AN6X-H1141 | M4614534 | <i>Washdown</i> | 7 | |
| | Bi 8-M18-AN6X-H1141 | T4615100 | <i>Extended Range</i> | 8 | |
| | Bi 5U-M18-ASIX-H1140 | M1901004 | <i>Uprox</i> | 5 | 2-Wire ASI-BUS |
| | Bi 5-EM18-AP6X-H1141 | T4614501 | | 5 | 3-Wire DC PNP |
| | Bi 5-M18-AP6X-H1141 | T4614500 | | 5 | |
| | Bi 5U-EM18-AP6X-H1141 | M1635340 | <i>Uprox</i> | 5 | |
| | Bi 5U-M18-AP6X-H1141 | M1635140 | <i>Uprox</i> | 5 | |
| | Bi 7-EM18WD-AP6X-H1141 | M4614531 | <i>Washdown</i> | 7 | |
| | Bi 7-M18WD-AP6X-H1141 | M4614529 | <i>Washdown</i> | 7 | |
| | Bi 8-M18-AP6X-H1141 | T4615000 | <i>Ext. Range</i> | 8 | |
| | Bi 8-EM18H-AP6X-H1141 | T4615094 | <i>Ext. Range</i> | 8 | |
| | Bi 8-EM18H-AP6X-H1141/S1589 | T4615099 | <i>weldguard</i> | 8 | |
| | Bi 5-EM18-VN4X-H1141 | T4614699 | <i>Comp. Output</i> | 5 | 4-Wire DC NPN |
| | Bi 5-M18-VN4X-H1141 | T1571800 | <i>Comp. Output</i> | 5 | |
| | Bi 8-M18-VN4X-H1141 | T4590702 | <i>Ext. Range</i> | 8 | 4-Wire DC PNP |
| | Bi 5-M18-VP4X-H1141 | T1561800 | <i>Comp. Output</i> | 5 | |
| | Bi 8-M18-VP4X-H1141 | T4590701 | <i>Ext. Range</i> | 8 | 2-Wire NAMUR |
| Bi 5-M18-Y1X-H1141 | M4015200 | | 5 | | |
| 18 mm - Embeddable eurofast Connection, Stainless Steel  | Bi 5-EM18FM-AP6X-H1141 | M4614539 | <i>Stainless Steel Front Cap</i> | 5 | 3-Wire DC PNP |

| 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 | CPB | PA 12 | N/A | YE | RK 4.2T-* | 1 | Diagram 1  |
| | 1000 | ≤100 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.2T-* | 1 | |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RKV 4T-* | 2 | Diagram 2  |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 2 | |
| | 2500 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | N/A | YE | RKV 4T-* | 2 | |
| | 2500 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | N/A | YE | RKV 4T-* | 2 | |
| | 1000 | ≤200 | -25 to +85 | IP 68, 69K | SS | PVDF | N/A | YE | RK 4T-* | 2 | |
| 500 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RK 4T-* | 2 | 2 | |
| 18-33 VDC | 200 | N/A | -30 to +85 | IP 68 | CPB | PA 12 | N/A | YE | RKC 254-*M | 7 | Diagram 3  |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RKV 4T-* | 3 | Diagram 4  |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 2500 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | N/A | YE | RKV 4T-* | 3 | |
| | 2500 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 1000 | ≤200 | -25 to +85 | IP 68, 69K | SS | PVDF | N/A | YE | RK 4T-* | 3 | |
| | 1000 | ≤200 | -25 to +85 | IP 68, 69K | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | SS | SF | N/A | YE | RKV 4T-* | 3 | |
| 500 | ≤200 | -25 to +70 | IP 67 | SS | WG | N/A | YE | RKV 4T-* | 3 | | |
| 10-65 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RKV 4.4T-* | 4 | Diagram 5  |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 4 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RK 4.4T-* | 4 | |
| 10-65 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 5 | Diagram 6  |
| | 500 | ≤200 | -25 to +70 | IP 67 | SS | PA 12 | N/A | YE | RK 4.4T-* | 5 | |
| 5-30 VDC | 1000 | Remote | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.21T-* | 6 | Diagram 7  |
| 10-30 VDC | 180 | ≤200 | -25 to +80 | IP 68, 69K | SS | SS | N/A | YE | RKV 4T-* | 3 |  |

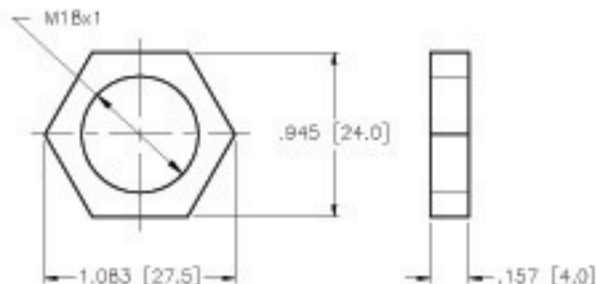
* Length in meters.

WIRING DIAGRAM



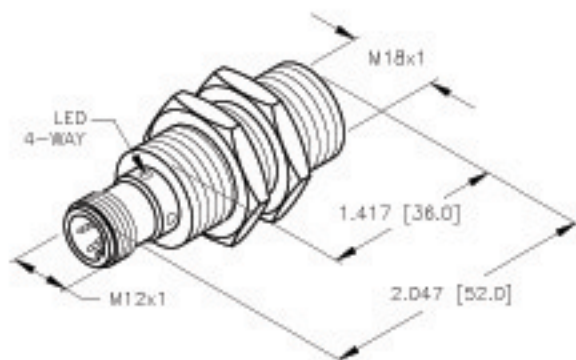
OUTPUT: AN6X

LOCKNUT LN-M18



SPECIFICATIONS

| | |
|---|--|
| OPERATING VOLTAGE | 10-30 VDC |
| RIPPLE | ≤10% |
| HYSTERESIS (DIFFERENTIAL TRAVEL) | 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 | <10 μA |
| NO-LOAD CURRENT | 5.5-9.5 mA |
| TIME DELAY BEFORE AVAILABILITY | ≤8 ms |
| POWER-ON EFFECT | Per IEC 947-5-2 |
| REVERSE POLARITY PROTECTION | INCORPORATED |
| WIRE-BREAK PROTECTION | INCORPORATED |
| TRANSIENT PROTECTION | Per EN 60947-5-2 |
| 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 | 95 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES) |
| LED FUNCTION | YELLOW: OUTPUT ENERGIZED |
| RATED OPERATING DISTANCE(Sr) | 5mm = 0.197" (NOMINAL) |
| SWITCHING FREQUENCY | 1000 Hz |
| REPEATABILITY | ≤2% of RATED OPERATING DISTANCE |
| SHIELDED | YES |



SOURCE DRAWING - FOR REFERENCE ONLY

NOTE: ALL TOLERANCES ±1.0 mm.

| | | | | | |
|--|--------------------------|---|------------------|---|----------------------------------|
| 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. | | TURCK INC High Technology Sensors and Automation Controls | |
| | MATERIAL BRASS BARREL | TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY | DRFT SNW USDR | DATE 08/10/87 SCALE 1 = 1.5 | DESCRIPTION B5-M18-AN6X-H1141 |
| FINISH COPPER/NICKEL/ CHROME PLATING | | UNIT OF MEASUREMENT INCH [MILLIMETER] | | IDENTIFICATION NO. T4614600 | REV C |
| DO NOT SCALE THIS DRAWING | | FILE: T4614600 | | SHEET 1 OF 1 | |

| | | | | |
|-----|----------------------------|----|----------|---------|
| C | MODIFY DRAWING, NEW FORMAT | IK | 03/08/00 | T343B |
| REV | DESCRIPTION | BY | DATE | EDD NO. |