

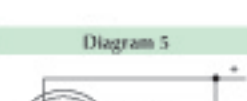







Inductive Sensors

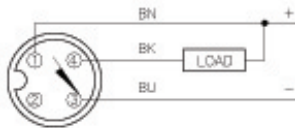


| Housing Style | Part Number | ID Number | Features | Sensing Range (mm) | Output |
|--|--------------------------------|---------------|------------------|--------------------|---------------|
| 18 mm - Nonembeddable, eurofast® Connection | Ni 8-M18-AD4X-H1141 | T4414700 | | 8 | 2-Wire DC |
| | Ni 8-M18-AD4X-H1144 | T4411288 | | 8 | |
| | Ni 14-M18-AD4X-H1141 | T4417241 | Ext. Range | 14 | |
| | Ni 14-M18-AD4X-H1144 | T4417290 | Ext. Range | 14 | |
| | Ni 8-M18-AN6X-H1141 | T4614800 | | 8 | 3-Wire DC NPN |
| | Ni 10-EM18WD-AN6X-H1141 | M4653433 | Washdown | 10 | |
| | Ni 10-M18-AN6X-H1141 | T4614892 | | 10 | |
| | Ni 10-M18WD-AN6X-H1141 | M4653440 | Washdown | 10 | |
| | Ni 12U-EM18-AN6X-H1141 | M1645350 | Uprox | 12 | |
| | Ni 12U-EM18-AN6X2-H1141 | M1645355 | Uprox | 12 | |
| | Ni 15U-EM18WD-AN6X-H1141 | M1634835 | Uprox Washdown | 15 | |
| | Ni 12U-M18-AN6X-H1141 | M1645150 | Uprox | 12 | |
| | Ni 12U-M18-AN6X2-H1141 | M1645155 | Uprox | 12 | |
| | Ni 14-M18-AN6X-H1141 | T4611410 | Ext. Range | 14 | |
| | Ni 8-M18-AP6X-H1141 | T4614700 | | 8 | 3-Wire DC PNP |
| | Ni 10-EM18WD-AP6X-H1141 | M4653419 | Washdown | 10 | |
| | Ni 10-M18-AP6X-H1141 | T4641291 | | 10 | |
| | Ni 12U-EM18-AP6X-H1141 | M1645340 | Uprox | 12 | |
| | Ni 12U-EM18-AP6X2-H1141 | M1645345 | Uprox | 12 | |
| | Ni 12U-M18-AP6X-H1141 | M1645140 | Uprox | 12 | |
| Ni 12U-M18-AP6X2-H1141 | M1645145 | Uprox | 12 | | |
| Ni 14-M18-AP6X-H1141 | T4611400 | Ext. Range | 14 | | |
| Ni 8-M18-VN4X-H1141 | T1571900 | Comp. Outputs | 8 | 4-Wire DC NPN | |
| Ni 14-M18-VN4X-H1141 | T4590603 | Ext. Range | 14 | | |
| Ni 8-M18-VP4X-H1141 | T1561900 | Comp. Outputs | 8 | 4-Wire DC PNP | |
| Ni 14-M18-VP4X-H1141 | T4590602 | Ext. Range | 14 | | |
| Ni 10-M18-Y1X-H1141 | M4015300 | | 10 | 2-Wire NAMUR | |
| Ni 12U-M18-ASIX-H1140 | M1901005 | Uprox | 12 | 2-Wire ASI-BUS | |
| 18 mm - Nonembeddable, eurofast connection, Teflon Coated | Ni 12U-MT18-AN6X-H1141 | M1645250 | Uprox | 12 | 3-Wire DC NPN |
| | Ni 12U-MT18-AP6X-H1141 | M1645240 | Uprox | 12 | 3-Wire DC PNP |
| | Ni 12U-MT18-AP6X2-H1141 | M1645245 | Uprox | 12 | |
| | Ni 12U-MT18H-AP6X-H1141/S1589 | M1645292 | weldguard® Uprox | 12 | |
| | Ni 12U-MT18H-AP6X2-H1141/S1589 | M1645293 | weldguard Uprox | 12 | |

| 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 | 500 | ≤100 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.2T-* | 1 | <p>Diagram 1</p>  |
| | 500 | ≤100 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.2T-*/S674 | 2 | |
| | 500 | ≤100 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.2T-* | 1 | |
| | 500 | ≤100 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.2T-*/S674 | 2 | |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | <p>Diagram 2</p>  <p>Diagram 3</p>  <p>Diagram 4</p>  <p>Diagram 5</p>  <p>Diagram 6</p>  <p>Diagram 7</p>  <p>Diagram 8</p>  |
| | 500 | ≤200 | -25 to +85 | IP 68, IP 69K | SS | PVDF | N/A | YE | RK 4T-* | 3 | |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | N/A | YE | RKY 4T-* | 3 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | GN | YE | RKY 4T-* | 3 | |
| | 1000 | ≤200 | -30 to +85 | IP 68, IP 69K | SS | PVDF | N/A | YE | RK 4T-* | 3 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | GN | YE | RK 4T-* | 3 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 3 | |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 4 | <p>Diagram 4</p>  <p>Diagram 5</p>  |
| | 500 | ≤200 | -25 to +85 | IP 68, 69K | SS | PVDF | N/A | YE | RK 4T-* | 4 | |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | N/A | YE | RKY 4T-* | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | SS | PA 12 | GN | YE | RKY 4T-* | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | CPB | PA 12 | GN | YE | RK 4T-* | 4 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4T-* | 4 | |
| 10-65 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 5 | <p>Diagram 6</p>  |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 5 | |
| 10-65 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 6 | <p>Diagram 6</p>  |
| | 1000 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.4T-* | 6 | |
| 5-30 VDC | 500 | Remote | -25 to +70 | IP 67 | CPB | PA 12 | N/A | YE | RK 4.21T-* | 7 | <p>Diagram 7</p>  |
| 18-33 VDC | 200 | N/A | -30 to +85 | IP 68 | CPB | PA 12 | N/A | YE | RKC 254-*M | 8 | <p>Diagram 7</p>  |
| 10-30 VDC | 2000 | ≤200 | -30 to +85 | IP 67 | TC | TC | N/A | YE | RK 4T-* | 3 | <p>Diagram 7</p>  |
| 10-30 VDC | 2000 | ≤200 | -30 to +85 | IP 67 | TC | TC | N/A | YE | RK 4T-* | 4 | <p>Diagram 8</p>  |
| | 2000 | ≤200 | -30 to +85 | IP 67 | TC | TC | GN | YE | RK 4T-* | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | TC | WG | N/A | YE | RKG 4T-*/S600 | 4 | |
| | 2000 | ≤200 | -30 to +85 | IP 67 | TC | WG | GN | YE | RKG 4T-*/S600 | 4 | |

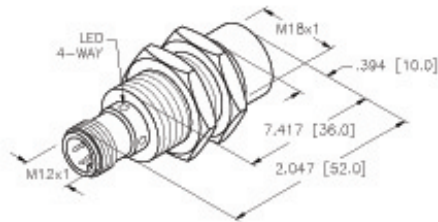
* Length in meters.

WIRING DIAGRAM



OUTPUT: AN6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

| | |
|---|---|
| OPERATING VOLTAGE | 10-30 VDC |
| 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 |
| TTL COMPATIBLE | NO |
| SHORT-CIRCUIT PROTECTED | YES |
| TRIGGER CURRENT FOR OVERLOAD PROTECTION | ≥220 mA |
| CONTINUOUS LOAD CURRENT | ≤200 mA |
| OFF-STATE (LEAKAGE) CURRENT | <100 μA |
| NO-LOAD CURRENT | ≤10 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 | 50 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES) |
| LED FUNCTION | YELLOW: OUTPUT ENERGIZED |
| RATED OPERATING DISTANCE(Sn) | 14 mm = 0.551" (NOMINAL) |
| SWITCHING FREQUENCY | 400 Hz |
| REPEATABILITY | ±2% of RATED OPERATING DISTANCE |
| TEMPERATURE DRIFT | <±15% |
| EMBEDDABLE (SHELDDED) | NO |
| MATING PLUGS/CABLES | 4-PIN "EUROFAST" CONSTRUCTION |
| LOCKMUT M18x1 | 24.0 mm AF, 27.5 mm AC, 4.0 mm THK |

NOTE
PRELIMINARY
SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIAL:
BARREL - CHROME PLATED BRASS
LOCKNUTS - CHROME PLATED BRASS
CONNECTOR - CHROME PLATED BRASS
SENSING FACE - PA12-GF30 PLASTIC

| | | | | | |
|---|------------------------------------|--|---------------|--|----------------|
| RELATED DOCUMENTS 1. 2. 3. 4. | 3RD ANGLE PROJECTION | THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION IS PROHIBITED. | | TURCK INC High Technology Sensor and Automation Controls | |
| MATERIAL SEE NOTE | TURCK'S UNLESS OTHERWISE SPECIFIED | DRAWN IK | DATE 03/14/01 | DESCRIPTION Ni14-M18-AN6X-H1141 | |
| FINISH SEE NOTE | ±0.0394 in. [±1.00 mm] | OSUN | SCALE 1=1.5 | IDENTIFICATION NO. T4611410 | REV P1 |
| P1 | IK | 03/14/01 | | | |
| REV | DESCRIPTION | Br | DATE | ECO NO. | |
| | | | | DO NOT SCALE THIS DRAWING | FILE: T4611410 |
| | | | | | SHEET 1 OF 1 |