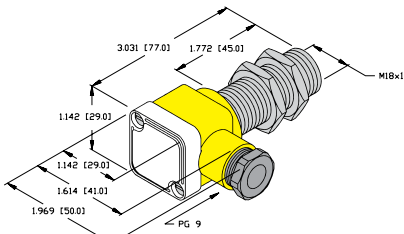
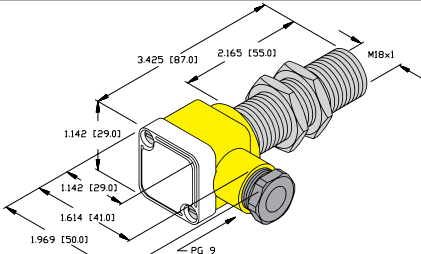
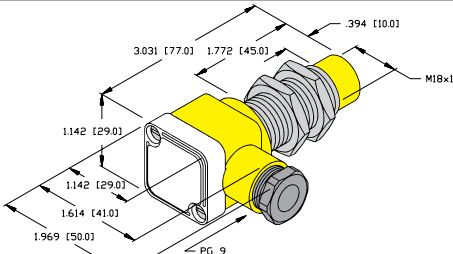
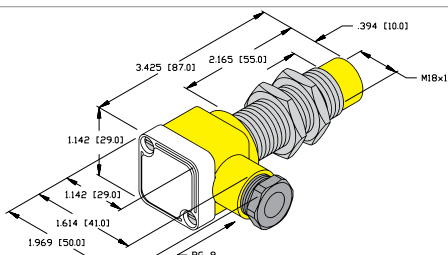
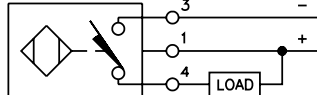
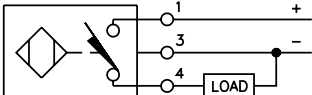
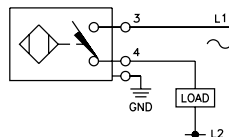


# Inductive Barrel Sensors | 18 mm

## Threaded Metal Barrels with Terminal Chamber and AC/DC Outputs

| Housing Style                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   | Dimension Drawings                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | A                                                                                                                                                                                                                                                                                                                                                                                                      |  <p>18 mm - Embeddable, Terminal Chamber</p>    |
| B                                                                                                                                                                                                                                                                                                                                                                                                                      |  <p>18 mm - Embeddable, Terminal Chamber</p>     | C                                                                                                                                                                                                                                                                                                                                                                                                      |  <p>18 mm - Nonembeddable, Terminal Chamber</p> |
| D                                                                                                                                                                                                                                                                                                                                                                                                                      |  <p>18 mm - Nonembeddable, Terminal Chamber</p> |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |
| Wiring Diagrams/Mating Cordsets                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |
| A4 3 and 4-wire DC - (AN, RN, AP, RP, VN, VP)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |
| <p>Ripple: ≤10%</p> <p>Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p>Voltage Drop Across Conducting Sensor: ≤1.8 V</p> <p>Trigger Current for Short Circuit Protection: ≥220 mA on 200 mA Load Current<br/>≥170 mA on 150 mA Load Current<br/>≥120 mA on 100 mA Load Current</p> <p>Off-State (Leakage) Current: ≤0.1 mA</p> <p>No-Load Current: ≤15 mA (Ferrite, Uprox)<br/>≤20 mA (Uprox+, Uprox3)</p> |                                                                                                                                   | <p>Time Delay Before Availability: ≤8 ms</p> <p>Power-On Effect: Per IEC 947-5-2</p> <p>Reverse Polarity Protection: Incorporated</p> <p>Wire-Break Protection: Incorporated</p> <p>Transient Protection: Per EN 60947-5-2</p> <p>Temperature Drift: ≤±10%</p> <p>Shock: 30 g, 11 ms</p> <p>Vibration: 55 Hz, 1 mm Amplitude in all 3 Planes</p> <p>Repeatability: ≤2% of Rated Operating Distance</p> |                                                                                                                                   |
| A6 2-wire AC/DC w/o Short-Circuit Protection - (AZ, RZ, FZ)                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |
| <p>Line Frequency: ≥50... ≤60 Hz</p> <p>Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p>Voltage Drop Across Conducting Sensor: ≤6.0 V</p> <p>Continuous Load Current: AC: ≤400 mA; DC: ≤300 mA<br/>AC: ≤100 mA; DC: ≤100 mA</p> <p>Off-State (Leakage) Current: ≤1.7 mA</p> <p>Minimum Load Current: ≥3.0 mA</p>                                                                                           |                                                                                                                                   | <p>Inrush Current: ≤8 A (≤10ms max. 5 Hz)<br/>≤1 A (≤10 ms max. 5 Hz) 12 mm<br/>≤0.2 A (≤10 ms max. 0.2 Hz) 8 mm</p> <p>Power-On Effect: Per IEC 947-5-2</p> <p>Transient Protection: Per EN 60947-5-2</p> <p>Shock: 30 g, 11 ms</p> <p>Vibration: 55 Hz, 1 mm Amplitude, in all 3 Planes</p> <p>Repeatability: ≤2% of Rated Operating Distance</p>                                                    |                                                                                                                                   |

We reserve the right to make technical alterations without prior notice.



Inductive Barrel Sensors | 18 mm

Threaded Metal Barrels with Terminal Chamber and AC/DC Outputs

| Part Number/<br>ID Number   | Features | Sensing Range (mm) | Output        | Voltage               | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Face  | Power LED | Output LED | Dimension Drawings | Wiring Diagrams | Spec List |
|-----------------------------|----------|--------------------|---------------|-----------------------|----------------------|------------------------|----------------------|------------|---------|-------|-----------|------------|--------------------|-----------------|-----------|
| Bi5U-EG18SK-AP6X<br>1635400 | Uprox    | 5                  | 3-wire DC PNP | 10-30 VDC             | 2500                 | ≤200                   | -30 to +85           | IP68       | SS      | PA 12 | N/A       | YE         | A                  | 2               | A4        |
| Bi5-G18SK-AN6X2<br>4642500  |          | 5                  | 3-wire DC NPN | 10-30 VDC             | 1000                 | ≤200                   | -25 to +70           | IP67       | CPB     | PA 12 | GN        | YE         | A                  | 1               | A4        |
| Bi5-G18SK-AP6X2<br>4642400  |          | 5                  | 3-wire DC PNP | 10-30 VDC             | 1000                 | ≤200                   | -25 to +70           | IP67       | CPB     | PA 12 | GN        | YE         | A                  | 2               | A4        |
| Bi5-G18SK-AZ3X2<br>4331400  |          | 5                  | 2-wire AC/DC  | 20-250 VAC/10-300 VDC | 20                   | ≤500                   | -25 to +70           | IP67       | CPB     | PA 12 | GN        | RD         | B                  | 3               | A6        |
| Ni10-G18SK-AN6X2<br>4642700 |          | 10                 | 3-wire DC NPN | 10-30 VDC             | 1000                 | ≤200                   | -25 to +70           | IP67       | CPB     | PA 12 | GN        | YE         | C                  | 1               | A4        |
| Ni10-G18SK-AP6X2<br>4642600 |          | 10                 | 3-wire DC PNP | 10-30 VDC             | 1000                 | ≤200                   | -25 to +70           | IP67       | CPB     | PA 12 | GN        | YE         | C                  | 2               | A4        |
| Ni10-G18SK-AZ3X2<br>4331500 |          | 10                 | 2-wire AC/DC  | 20-250 VAC/10-300 VDC | 20                   | ≤400/300               | -25 to +70           | IP67       | CPB     | PA 12 | GN        | RD         | D                  | 3               | A6        |

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Inductive Barrel Sensors

