
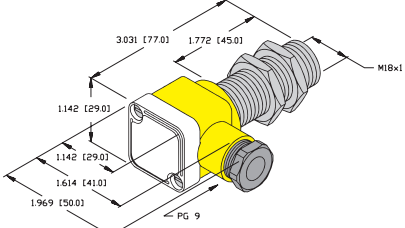
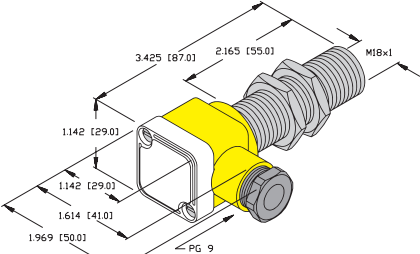
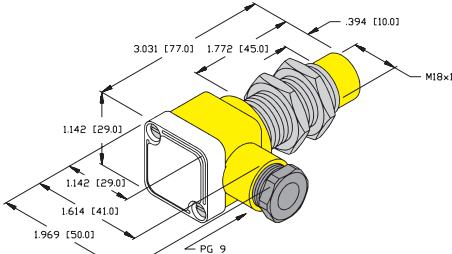
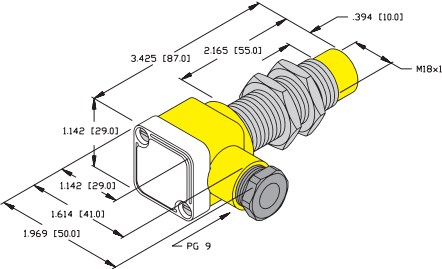
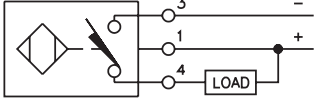
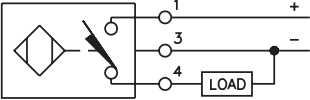
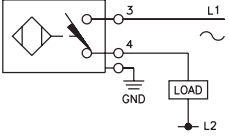


# Inductive Barrel Sensors | 18 mm

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

Housing Style	Dimension Drawings	
	<p><b>A</b></p>  <p>18 mm - Embeddable, Terminal Chamber</p>	
<p><b>B</b></p>  <p>18 mm - Embeddable, Terminal Chamber</p>	<p><b>C</b></p>  <p>18 mm - Nonembeddable, Terminal Chamber</p>	
<p><b>D</b></p>  <p>18 mm - Nonembeddable, Terminal Chamber</p>		
Wiring Diagrams/Mating Cordsets		
<p><b>1</b></p> 	<p><b>2</b></p> 	<p><b>3</b></p> 
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                  ≥170 mA on 150 mA Load Current                  ≥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)                  ≤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                  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)                  ≤1 A (≤10 ms max. 5 Hz) 12 mm                  ≤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/ 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 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 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 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 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 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 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 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

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

Inductive Barrel Sensors