
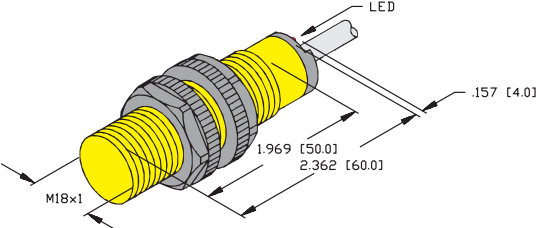
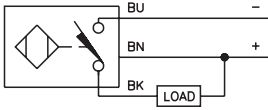
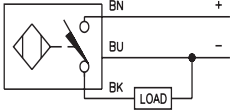
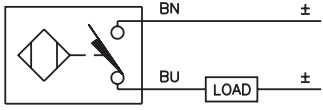


Inductive Barrel Sensors | 18 mm

Threaded Plastic Barrels with Cable and DC Outputs

Housing Style	Dimension Drawings
	<p data-bbox="808 310 824 331">A</p>  <p data-bbox="852 546 1453 567">18 mm - Embeddable and Nonembeddable, Partial Threading, Potted-In Cable</p>

Wiring Diagrams/Mating Cordsets		
<p data-bbox="105 636 121 657">1</p> 	<p data-bbox="544 636 560 657">2</p> 	<p data-bbox="1031 636 1047 657">3</p> 

A2	2-wire DC - (AD, RD, AG)	
<p data-bbox="397 863 535 884">Ripple: $\leq 10\%$</p> <p data-bbox="214 890 638 911">Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p data-bbox="131 919 698 940">Voltage Drop Across Conducting Sensor: Non-polarized (AD) $< 5.0\text{ V}$</p> <p data-bbox="483 949 657 970">Polarized (AG) $\leq 4.2\text{ V}$</p> <p data-bbox="110 978 560 999">Trigger Current for Short Circuit Protection: $\geq 120\text{ mA}$</p> <p data-bbox="266 1008 555 1029">Minimum Load Current: $\geq 3.0\text{ mA}$</p>	<p data-bbox="911 863 1234 884">Off-State (Leakage) Current: $\leq 0.8\text{ mA}$</p> <p data-bbox="998 890 1287 911">Power-On Effect: Per IEC 947-5-2</p> <p data-bbox="967 919 1305 940">Transient Protection: Per EN 60947-5-2</p> <p data-bbox="1079 949 1256 970">Shock: 30 g, 11 ms</p> <p data-bbox="1052 978 1471 999">Vibration: 55 Hz, 1 mm Amplitude in all 3 Planes</p> <p data-bbox="1024 1008 1438 1029">Repeatability: $\leq 2\%$ of Rated Operating Distance</p>	
A4	3 and 4-wire DC - (AN, RN, AP, RP, VN, VP)	
<p data-bbox="397 1083 535 1104">Ripple: $\leq 10\%$</p> <p data-bbox="214 1110 638 1131">Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p data-bbox="131 1140 540 1161">Voltage Drop Across Conducting Sensor: $\leq 1.8\text{ V}$</p> <p data-bbox="110 1169 763 1190">Trigger Current for Short Circuit Protection: $\geq 220\text{ mA}$ on 200 mA Load Current</p> <p data-bbox="235 1199 763 1220">$\geq 170\text{ mA}$ on 150 mA Load Current</p> <p data-bbox="235 1228 763 1249">$\geq 120\text{ mA}$ on 100 mA Load Current</p> <p data-bbox="235 1257 555 1278">Off-State (Leakage) Current: $\leq 0.1\text{ mA}$</p> <p data-bbox="318 1287 677 1308">No-Load Current: $\leq 15\text{ mA}$ (Ferrite, Uprox)</p> <p data-bbox="483 1316 695 1337">$\leq 20\text{ mA}$ (Uprox+, Uprox3)</p>	<p data-bbox="889 1083 1218 1104">Time Delay Before Availability: $\leq 8\text{ ms}$</p> <p data-bbox="998 1110 1284 1131">Power-On Effect: Per IEC 947-5-2</p> <p data-bbox="914 1140 1271 1161">Reverse Polarity Protection: Incorporated</p> <p data-bbox="953 1169 1271 1190">Wire-Break Protection: Incorporated</p> <p data-bbox="967 1199 1300 1220">Transient Protection: Per EN 60947-5-2</p> <p data-bbox="984 1228 1224 1249">Temperature Drift: $\leq \pm 10\%$</p> <p data-bbox="1079 1257 1256 1278">Shock: 30 g, 11 ms</p> <p data-bbox="1052 1287 1461 1308">Vibration: 55 Hz, 1 mm Amplitude in all 3 Planes</p> <p data-bbox="1024 1316 1425 1337">Repeatability: $\leq 2\%$ of Rated Operating Distance</p>	

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

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Threaded Plastic Barrels with Cable and 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-S18-AP6X 1635500	Uprox	5	3-wire DC PNP	10-30 VDC	2500	≤200	-30 to +85	IP68	PBT	PBT	N/A	YE	A	2	A4
Bi5-S18-AD4X 44560		5	2-wire DC	10-65 VDC	1000	≤100	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	3	A2
Bi5-S18-AN6X 46561		5	3-wire DC NPN	10-30 VDC	1000	≤200	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	1	A4
Bi5-S18-AN7X 1714000	TTL Compatible	5	3-wire DC NPN	10-30 VDC	1000	≤150	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	1	A4
Bi5-S18-AN7X/S100 17734	High Temp. 100 °C	5	3-wire DC NPN	10-30 VDC	1000	≤150	-25 to +100	IP67	PA 12	IRPA	N/A	YE	A	1	A4
Bi5-S18-AP6X 46560		5	3-wire DC PNP	10-30 VDC	1000	≤200	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	2	A4
Bi5-S18-AP7X/S100 17542	TTL Compatible, High Temp. 100 °C	5	3-wire DC PNP	10-30 VDC	1000	≤150	-25 to +100	IP67	PA 12	IRPA	N/A	YE	A	2	A4
Ni12U-S18-AN6X 1645520	Uprox	12	3-wire DC NPN	10-30 VDC	2000	≤200	-30 to +85	IP68	PBT	PBT	N/A	YE	A	1	A4
Ni12U-S18-AP6X 1645500	Uprox	12	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP68	PBT	PBT	N/A	YE	A	2	A4
Ni8-S18-AD4X 44562		8	2-wire DC	10-65 VDC	500	≤100	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	3	A2
Ni8-S18-AN6X 46563		8	3-wire DC NPN	10-30 VDC	500	≤200	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	1	A4
Ni8-S18-AP6X 46562		8	3-wire DC PNP	10-30 VDC	500	≤200	-25 to +70	IP67	PA 12	PA 12	N/A	YE	A	2	A4
Ni8-S18-AP7X/S100 1749850	TTL Compatible, High Temp. 100 °C	8	3-wire DC PNP	10-30 VDC	500	≤150	-25 to +100	IP67	PA 12	IRPA	N/A	YE	A	2	A4

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