
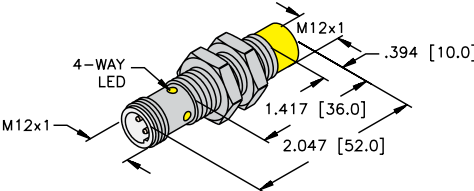
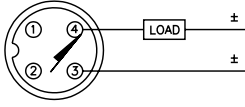
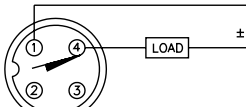
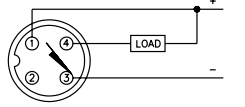
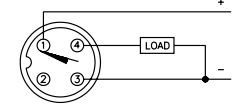
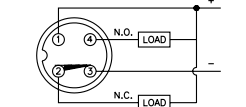
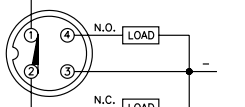


# Inductive Barrel Sensors | 12 mm

## Nonembeddable Threaded Metal Barrels with Connector and DC Outputs

Housing Style	Dimension Drawings
	<p data-bbox="808 310 824 331">A</p>  <p data-bbox="950 546 1356 567">12 mm - Nonembeddable, M12 Eurofast Connection</p>

Wiring Diagrams/Mating Cordsets		
<p data-bbox="105 640 121 661">1</p>  <p data-bbox="227 787 422 808">Mating Cordset: RK 4.2T-*</p>	<p data-bbox="568 640 584 661">2</p>  <p data-bbox="698 787 893 808">Mating Cordset: RK 4.23T-*</p>	<p data-bbox="1047 640 1063 661">3</p>  <p data-bbox="1136 787 1429 808">Mating Cordset: RK 4T-*; RKV 4T-*</p>
<p data-bbox="105 819 121 840">4</p>  <p data-bbox="194 966 454 987">Mating Cordset: RK 4T-*; RKV 4T-*</p>	<p data-bbox="568 819 584 840">5</p>  <p data-bbox="698 966 893 987">Mating Cordset: RK 4.4T-*</p>	<p data-bbox="1047 819 1063 840">6</p>  <p data-bbox="1128 966 1453 987">Mating Cordset: RK 4.4T-*; RKV 4.4T-*</p>

A2	2-wire DC - (AD, RD, AG)	
<p data-bbox="397 1060 544 1081">Ripple: <math>\leq 10\%</math></p> <p data-bbox="219 1092 641 1113">Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p data-bbox="138 1123 706 1144">Voltage Drop Across Conducting Sensor: Non-polarized (AD) <math>&lt; 5.0\text{ V}</math></p> <p data-bbox="495 1144 657 1165">Polarized (AG) <math>\leq 4.2\text{ V}</math></p> <p data-bbox="113 1176 560 1197">Trigger Current for Short Circuit Protection: <math>\geq 120\text{ mA}</math></p> <p data-bbox="267 1207 560 1228">Minimum Load Current: <math>\geq 3.0\text{ mA}</math></p>	<p data-bbox="917 1060 1242 1081">Off-State (Leakage) Current: <math>\leq 0.8\text{ mA}</math></p> <p data-bbox="998 1092 1291 1113">Power-On Effect: Per IEC 947-5-2</p> <p data-bbox="966 1123 1307 1144">Transient Protection: Per EN 60947-5-2</p> <p data-bbox="1079 1144 1258 1165">Shock: 30 g, 11 ms</p> <p data-bbox="1055 1176 1469 1197">Vibration: 55 Hz, 1 mm Amplitude in all 3 Planes</p> <p data-bbox="1023 1207 1437 1228">Repeatability: <math>\leq 2\%</math> of Rated Operating Distance</p>	
A4	3 and 4-wire DC - (AN, RN, AP, RP, VN, VP)	
<p data-bbox="397 1283 544 1304">Ripple: <math>\leq 10\%</math></p> <p data-bbox="219 1314 641 1335">Differential Travel (Hysteresis): 3-15% (5% typical)</p> <p data-bbox="138 1346 544 1367">Voltage Drop Across Conducting Sensor: <math>\leq 1.8\text{ V}</math></p> <p data-bbox="113 1377 771 1451">Trigger Current for Short Circuit Protection: <math>\geq 220\text{ mA}</math> on 200 mA Load Current  <math>\geq 170\text{ mA}</math> on 150 mA Load Current  <math>\geq 120\text{ mA}</math> on 100 mA Load Current</p> <p data-bbox="235 1461 560 1482">Off-State (Leakage) Current: <math>\leq 0.1\text{ mA}</math></p> <p data-bbox="316 1493 690 1514">No-Load Current: <math>\leq 15\text{ mA}</math> (Ferrite, Uprox)  <math>\leq 20\text{ mA}</math> (Uprox+, Uprox3)</p>	<p data-bbox="893 1283 1218 1304">Time Delay Before Availability: <math>\leq 8\text{ ms}</math></p> <p data-bbox="998 1314 1291 1335">Power-On Effect: Per IEC 947-5-2</p> <p data-bbox="917 1346 1274 1367">Reverse Polarity Protection: Incorporated</p> <p data-bbox="958 1377 1274 1398">Wire-Break Protection: Incorporated</p> <p data-bbox="966 1409 1307 1430">Transient Protection: Per EN 60947-5-2</p> <p data-bbox="982 1440 1226 1461">Temperature Drift: <math>\leq \pm 10\%</math></p> <p data-bbox="1079 1472 1258 1493">Shock: 30 g, 11 ms</p> <p data-bbox="1055 1503 1469 1524">Vibration: 55 Hz, 1 mm Amplitude in all 3 Planes</p> <p data-bbox="1023 1535 1437 1556">Repeatability: <math>\leq 2\%</math> of Rated Operating Distance</p>	

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



# Inductive Barrel Sensors | 12 mm

## Nonembeddable Threaded Metal Barrels with Connector 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
Ni10U-M12-AN6X-H1141 1634826	Uprox+	10	3-wire DC NPN	10-30 VDC	1000	≤200	-30 to +85	IP68	CPB	LCP	N/A	YE	A	3	A4
Ni10U-M12-AP6X-H1141 1634806	Uprox+	10	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP68	CPB	LCP	N/A	YE	A	4	A4
Ni10U-EM12-AN6X-H1141 1634828	Uprox+	10	3-wire DC NPN	10-30 VDC	1000	≤200	-30 to +85	IP68	SS	LCP	N/A	YE	A	3	A4
Ni10U-EM12-AP6X-H1141 1634808	Uprox+	10	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP68	SS	LCP	N/A	YE	A	4	A4
Ni8U-M12-AN6X-H1141 1644150	Uprox	8	3-wire DC NPN	10-30 VDC	2000	≤200	-30 to +85	IP67	CPB	LCP	N/A	YE	A	3	A4
Ni8U-M12-AN6X2-H1141 1644155	Uprox	8	3-wire DC NPN	10-30 VDC	2000	≤200	-30 to +85	IP67	CPB	LCP	GN	YE	A	3	A4
Ni8U-M12-AP6X-H1141 1644140	Uprox	8	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP67	CPB	LCP	N/A	YE	A	4	A4
Ni8U-M12-AP6X2-H1141 1644145	Uprox	8	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP67	CPB	LCP	GN	YE	A	4	A4
Ni8U-EM12-AN6X-H1141 1644350	Uprox	8	3-wire DC NPN	10-30 VDC	2000	≤200	-30 to +85	IP68	SS	LCP	N/A	YE	A	3	A4
Ni8U-EM12-AP6X-H1141 1644340	Uprox	8	3-wire DC PNP	10-30 VDC	2000	≤200	-30 to +85	IP68	SS	PBT	N/A	YE	A	4	A4
Ni8-M12-AD4X-H1141 4411241	Extended Range	8	2-wire DC	10-65 VDC	2000	≤100	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	1	A2
Ni8-M12-AD4X-H1144 4411289	Extended Range	8	2-wire DC	10-65 VDC	2000	≤100	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	2	A2
Ni8-M12-AN6X-H1141 4611315	Extended Range	8	3-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	3	A4
Ni8-M12-AP6X-H1141 4611310	Extended Range	8	3-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	4	A4
Ni8-M12-VN6X-H1141 4611323	Ext. Range, Comp. Outputs	8	4-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	5	A4
Ni8-M12-VP6X-H1141 4611324	Ext. Range, Comp. Outputs	8	4-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	6	A4
Ni5-M12-AN6X-H1141 4671390		5	3-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	3	A4
Ni5-M12-AP6X-H1141 4653400		5	3-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	4	A4
Ni4-M12-AD4X-H1141 44067		4	2-wire DC	10-65 VDC	2000	≤100	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	1	A2
Ni4-M12-AN6X-H1141 46068		4	3-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	3	A4
Ni4-M12-AP6X-H1141 46067		4	3-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	4	A4
Ni4-EM12-AN7X-H1141 4606893	TTL Compatible	4	3-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	3	A4
Ni4-M12-VN6X-H1141 16431	Comp. Outputs	4	4-wire DC NPN	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	5	A4
Ni4-M12-VP6X-H1141 16331	Comp. Outputs	4	4-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	PA 12	N/A	YE	A	6	A4
Ni4-EM12-VP6X-H1141 1633101	Comp. Outputs	4	4-wire DC PNP	10-30 VDC	2000	≤200	-25 to +70	IP67	SS	PA 12	N/A	YE	A	6	A4

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Inductive Barrel Sensors

