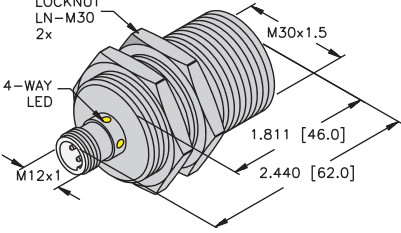
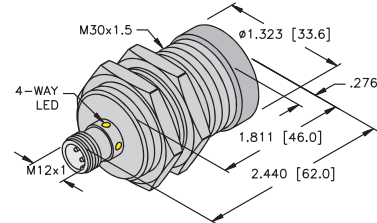
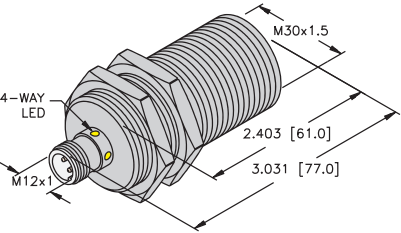


Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30-AD4X-H1144	M4405074	Uprox PTFE	10	2-Wire DC
	Bi10U-MT30H-AD4X-H1144/S1589	M4405096	Uprox PTFE, weldguard	10	
	Bi12-MT30H-AD4X-H1141	T4417094	Stoneface	12	
	Bi12-MT30H-AD4X-H1141/S1589	T4417097	weldguard[®]	12	
	Bi12-MT30H-AD4X-H1144	T4417095	Stoneface	12	
	Bi12-MT30H-AD4X-H1144/S1589	T4417098	weldguard	12	
	Bi10U-MT30-AN6X-H1141	M1636250	Uprox	10	3-Wire DC NPN
	Bi10U-MT30-AP6X-H1141	M1636240	Uprox	10	3-Wire DC PNP
	Bi10U-MT30-AP6X2-H1141	M1636245	Uprox	10	
	Bi10U-MT30H-AP6X2-H1141	M1636220	Stoneface, Uprox	10	
	Bi10U-MT30H-AP6X2-H1141/S1589	M1636291	weldguard, Uprox	10	
	Bi15U-MT30-AP6X-H1141	M1636734	Uprox PTFE	15	
	Bi15U-MT30-AP6X2-H1141	M1644741	Uprox PTFE	15	
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30H-AP6X2-H1141/S1610	M1636292	weldguard, Uprox	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Extended Barrel Length 	Bi10-M30E-AD4X-H1141	T4417501		10	2-Wire DC
	Bi15-M30E-AN6X-H1141	T4618690	Extended Range	15	3-Wire DC NPN
	Bi10U-EM30E-AP6X-H1141	M1636322	Uprox	10	3-Wire DC PNP
	Bi10U-EM30HE-AP6X2-H1141	M1636415	Stoneface, Uprox	10	
	Bi15-M30E-AP6X-H1141	T4618590	Extended Range	15	
	Bi10-M30E-VN4X-H1141	T1571690	Comp. Outputs	10	4-Wire DC NPN
	Bi10-M30E-VP4X-H1141	T1561690	Comp. Outputs	10	4-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

TURCK

Innovative Solutions for Automation

2-Wire DC NAMUR - (Y0 and Y1)

Differential Travel (Hysteresis)	1-10% (5% typical)
Nominal Voltage	8.2 VDC (EN60947-5-6)
Resistance Change from	
Nonactivated to Activated Condition	Typical <1.0 to >8.0 k Ω
Resulting Current Change	≥ 2.2 mA to ≤ 1.0 mA
Recommended Switching Point for	
Remote Amplifier	>1.2 to <2.1 mA, typ. 1.55 mA ON/1.75 mA OFF
Power-On Effect	Realized in Amplifier
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Realized in Amplifier
Transient Protection	Realized in Amplifier
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\leq 2\%$ of Rated Operating Distance

2-Wire DC - (AD4, RD4, AG41 and RG41)

Ripple	$\leq 10\%$
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	Non-polarized (AD) <5.0 V Polarized (AG) <4.0 V
Trigger Current for Overload Protection	≥ 120 mA
Minimum Load Current	≥ 3.0 mA
Off-State (Leakage) Current	≤ 0.8 mA
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\leq 2\%$ of Rated Operating Distance

REED (AC) and (DC) - (AR7X)

Ripple	$\leq 10\%$
Differential Travel (Hysteresis)	≤ 1 mm (Depends on magnet)
Maximum Switching Capacity	10 W
No-Load Current	0 mA
Maximum Approach Velocity	≤ 10 m/s
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\geq \pm 0.1$ mm (constant temperature & voltage)
Temperature Drift	≤ 0.1 mm
Voltage Drop	≤ 0.5 Volts