

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
30 mm - Embeddable/Nonembeddable, Partial Threading, Potted-In Cable 	Bi10-S30-AD4X	T4459000		•	10	2-Wire DC
	Ni15-S30-AD4X	T4459200			15	
	Bi10-S30-AN6X	T4659100		•	10	3-Wire DC NPN
	Bi10-S30-AN7X	T1720100	TTL Compatible	•	10	
	Bi10-S30-AN7X/S100	T1777700	High Temp. 100°C	•	10	
	Bi10U-S30-AN6X	M1636520	Uprox	•	10	
	Ni15-S30-AN6X	T4659300			15	
	Ni15-S30-AN6X/S100	T4659321	High Temp. 100°C		15	
	Ni15-S30-AN7X/S100	T1777600	High Temp. 100°C		15	
	Ni20U-S30-AN6X	M1646520	Uprox		20	
	Bi10-S30-AP6X	T4659000		•	10	3-Wire DC PNP
	Bi10U-S30-AP6X	M1636500	Uprox	•	10	
	Ni15-S30-AP6X	T4659200			15	
	Ni20U-S30-AP6X	M1646500	Uprox		20	
	Ni15-S30-VN4X	T1522400	Comp. Output		15	4-Wire DC NPN
	Bi10-S30-VP4X	T1512200	Comp. Output	•	10	4-Wire DC PNP
	Ni15-S30-VP4X	T1563000	Comp. Output		15	
	Bi10-S30-AZ3X	T4355400		•	10	2-Wire AC/DC
	Ni15-S30-AZ3X	T4355500			15	
	Ni15-S30-AZ3X/S100	T1375800	High Temp. 100°C		15	

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

TURCK

Innovative Solutions for Automation

2-Wire AC w/o Short-Circuit Protection - (AZ, RZ, FZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Continuous Load Current.	≤400 mA
	8 and 12 mm ≤100 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥5.0 mA
Inrush Current.	≤8.0 A (≤10 ms, 5% Duty Cycle)
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.	≤2% of Rated Operating Distance

2-Wire AC/DC w/Short-Circuit Protection - (ADZ, RDZ, FDZ, VDZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Trigger Current for Overload Protection	AC: ≥440 mA; DC: ≥330 mA
	8 and 12 mm AC: ≥120 mA; DC: ≥120 mA
Continuous Load Current.	AC: ≤400 mA; DC: ≤300 mA
	8 and 12 mm AC: ≥100 mA; DC: ≥100 mA
Off-State (Leakage) Current	≤1.7 mA (AC)
	≤1.5 mA (DC)
Minimum Load Current	≥3.0 mA
Inrush Current.	4.0 A (≤20 ms, 10% Duty Cycle)
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.	≤2% of Rated Operating Distance