

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Partial Threading, Potted-In Cable 	Ni 7-EM18D-VP6X/S120	M4632100	<i>High Temp. 120°C</i>	7	4-Wire DC PNP
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni10-G18K-AN6X	T4671500	<i>Short Barrel</i>	10	3-Wire DC NPN
	Ni10-G18K-AP6X	T4670500	<i>Short Barrel</i>	10	3-Wire DC PNP
	Ni10-G18-Y0	T1006100		10	2-Wire NAMUR
	Ni10-G18-Y0X	T4015100		10	
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni10-G18-AN6X	T4641700		10	3-Wire DC NPN
	Ni10-G18-AN7X	T4740700	<i>TTL Compatible</i>	10	
	Ni10-G18-AP6X	T4641600		10	3-Wire DC PNP
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni14-G18-ADZ30X2	T4205402	<i>Extended Range</i>	14	2-Wire AC/DC Short-Circuit Protected
	Ni10-G18-AZ3X	T4330500		10	2-Wire AC/DC

Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	YE	2M/PTFE	1	Diagram 1
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
5-30 VDC	500	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	4	Diagram 4
	500	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 5
	1000	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 5
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	5	Diagram 5
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	5	

WIRING DIAGRAM		LOCKNUT LN-M18		SPECIFICATIONS																																															
				<table><tr><td>OPERATING VOLTAGE</td><td>20-250 VAC, 10-300 VDC</td></tr><tr><td>LINE FREQUENCY</td><td>40-60 Hz</td></tr><tr><td>HYSTERESIS (DIFFERENTIAL TRAVEL)</td><td>3-15% (5% TYPICAL)</td></tr><tr><td>VOLTAGE DROP ACROSS CONDUCTING SENSOR</td><td>≤ 0.0 V at 400 mA</td></tr><tr><td>OUTPUT FUNCTION</td><td>NORMALLY OPEN 2-WIRE AC/DC SELF-CONTAINED</td></tr><tr><td>SHORT-CIRCUIT PROTECTED</td><td>YES</td></tr><tr><td>TRIGGER CURRENT FOR OVERLOAD PROTECTION</td><td>AC: 440 mA, DC: 330 mA</td></tr><tr><td>CONTINUOUS LOAD CURRENT</td><td>AC: 440 mA, DC: 330 mA</td></tr><tr><td>LEAKAGE (OFF-STATE) CURRENT</td><td>≤ 1.7 mA</td></tr><tr><td>MINIMUM LOAD CURRENT</td><td>≥ 3.0 mA</td></tr><tr><td>INRUSH CURRENT</td><td>≤ 3.0 A</td></tr><tr><td>TIME DELAY BEFORE AVAILABILITY</td><td>≤ 15 ms</td></tr><tr><td>POWER-ON EFFECT PROTECTION</td><td>PER IEC 847-5-2</td></tr><tr><td>PROTECTION AGAINST TRANSIENTS</td><td>PER EN 60947-5-2</td></tr><tr><td>OPERATING TEMPERATURE</td><td>-25°C to +70°C (-13°F to +158°F)</td></tr><tr><td>ENCLOSURE</td><td>MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67</td></tr><tr><td>SHOCK</td><td>30 g, 11 ms</td></tr><tr><td>VIBRATION</td><td>55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)</td></tr><tr><td>LED FUNCTION</td><td>GREEN = POWER ON FLASHING GREEN = SHORT-CIRCUIT WARNING RED = OUTPUT ENERGIZED</td></tr><tr><td>SENSING RANGE</td><td>14 mm = .551" (NOMINAL)</td></tr><tr><td>SWITCHING FREQUENCY</td><td>60 Hz</td></tr><tr><td>REPEATABILITY</td><td>≤ 2% OF RATED OPERATING DISTANCE</td></tr><tr><td>SHIELDED</td><td>NO</td></tr></table>		OPERATING VOLTAGE	20-250 VAC, 10-300 VDC	LINE FREQUENCY	40-60 Hz	HYSTERESIS (DIFFERENTIAL TRAVEL)	3-15% (5% TYPICAL)	VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 0.0 V at 400 mA	OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE AC/DC SELF-CONTAINED	SHORT-CIRCUIT PROTECTED	YES	TRIGGER CURRENT FOR OVERLOAD PROTECTION	AC: 440 mA, DC: 330 mA	CONTINUOUS LOAD CURRENT	AC: 440 mA, DC: 330 mA	LEAKAGE (OFF-STATE) CURRENT	≤ 1.7 mA	MINIMUM LOAD CURRENT	≥ 3.0 mA	INRUSH CURRENT	≤ 3.0 A	TIME DELAY BEFORE AVAILABILITY	≤ 15 ms	POWER-ON EFFECT PROTECTION	PER IEC 847-5-2	PROTECTION AGAINST TRANSIENTS	PER EN 60947-5-2	OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)	ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67	SHOCK	30 g, 11 ms	VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)	LED FUNCTION	GREEN = POWER ON FLASHING GREEN = SHORT-CIRCUIT WARNING RED = OUTPUT ENERGIZED	SENSING RANGE	14 mm = .551" (NOMINAL)	SWITCHING FREQUENCY	60 Hz	REPEATABILITY	≤ 2% OF RATED OPERATING DISTANCE	SHIELDED	NO
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1. ALL DIMENSIONAL TOLERANCES: ±1.0mm

REV	DESCRIPTION	BY	DATE	EDD NO.
B	UPDATE VOLTAGE RATINGS	CBM	06/26/01	T42054

RELATED DOCUMENTS	3RD ANGLE PROJECTION	THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensors and Automation Controls	
1. 2. 3. 4.		TOLERANCES UNLESS OTHERWISE SPECIFIED	DRFT CBM	DATE 11/08/00	DESCRIPTION
MATERIAL		0.0394in (1.00mm)	06CH	SCALE NONE	Ni14-G18-ADZ30X2
BRASS BARREL			UNIT OF MEASUREMENT		IDENTIFICATION NO.
FINISH		COPPER, NICKEL, CHROME PLATING		T4205402	
				DO NOT SCALE THIS DRAWING	
				FILE: T4205402	
				SHEET 1 OF 1	