

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
30 mm - Embeddable, Potted-In Cable 	Bi10-G30K-AD4X	T4670695	Short Barrel	10	2-Wire DC	
	Bi10-G30K-AN6X	T4671600	Short Barrel	10	3-Wire DC NPN	
	Bi10-G30K-AP6X	T4670600	Short Barrel	10	3-Wire DC PNP	
	Bi15-G30K-AP6X	T4207300	Short Barrel	15		
	Bi10-G30-Y0	T1006200	Short Barrel	10	2-Wire DC NAMUR	
	Bi10-G30-Y0X	T4020000	Short Barrel	10		
Bi10-G30-Y0X/S90	T4617691		10			
30 mm - Embeddable, Potted-In Cable 	Bi10-G30-AN6X	T4647500		10	3-Wire DC NPN	
	Bi10-G30-AN7X	T1714800		10		
	Bi10-G30-AP6X	T4647400			10	3-Wire DC PNP
	Bi10-EG30-ADZ30X2	T4256095			10	2-Wire AC/DC Short-Circuit Protection
	Bi10-G30-ADZ30X2	T4207000			10	
	Bi15-G30-ADZ30X2	T4207200			15	
Bi10-EG30-AZ3X	T4345699			10	2-Wire AC/DC	
Bi10-G30-AZ3X	T4345400			10		
30 mm - Embeddable, Potted-In Cable, Teflon Coated 	Bi10-GT30-ADZ30X2/S34	T4256000	WFI	10	2-Wire AC/DC Short-Circuit Protection	

Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable /Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 2
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
5-30 VDC	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	4	Diagram 3
	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
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	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	GN	RD	2M/PVC	5	Diagram 4
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	5	
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WIRING DIAGRAMS		LOCKNUT LN-M30		SPECIFICATIONS																																																			
<p>OUTPUT: AN6X</p>				<table border="1"> <tr><td>OPERATING VOLTAGE</td><td>10-30 VDC</td></tr> <tr><td>RIPPLE</td><td>≤10%</td></tr> <tr><td>DIFFERENTIAL TRAVEL (HYSTERESIS)</td><td>3-15% (5% TYPICAL)</td></tr> <tr><td>VOLTAGE DROP ACROSS CONDUCTING SENSOR</td><td>≤1.8 V at 200 mA</td></tr> <tr><td>OUTPUT FUNCTION</td><td>NORMALLY OPEN 3-WIRE DC SELF-CONTAINED</td></tr> <tr><td>TTL COMPATIBLE</td><td>NO</td></tr> <tr><td>SHORT-CIRCUIT PROTECTED</td><td>YES</td></tr> <tr><td>TRIGGER CURRENT FOR OVERLOAD PROTECTION</td><td>≥220 mA</td></tr> <tr><td>CONTINUOUS LOAD CURRENT</td><td>≤200 mA</td></tr> <tr><td>OFF-STATE (LEAKAGE) CURRENT</td><td><10 μA</td></tr> <tr><td>NO-LOAD CURRENT</td><td>5.5-9.5 mA</td></tr> <tr><td>TIME DELAY BEFORE AVAILABILITY</td><td>≤8 ms</td></tr> <tr><td>POWER-ON EFFECT PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>REVERSE POLARITY PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>WIRE-BREAK PROTECTION</td><td>INCORPORATED</td></tr> <tr><td>PROTECTION AGAINST TRANSIENTS</td><td>2 kV, 1 ms, 1 kΩ</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>RED: OUTPUT ENERGIZED</td></tr> <tr><td>SENSING RANGE</td><td>10 mm = .394" (NOMINAL)</td></tr> <tr><td>SWITCHING FREQUENCY</td><td>500 Hz</td></tr> <tr><td>REPEATABILITY</td><td>≤2% of RATED OPERATING DISTANCE</td></tr> <tr><td>EMBEDDABLE (SHIELDED)</td><td>YES</td></tr> </table>		OPERATING VOLTAGE	10-30 VDC	RIPPLE	≤10%	DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)	VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA	OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC SELF-CONTAINED	TTL COMPATIBLE	NO	SHORT-CIRCUIT PROTECTED	YES	TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA	CONTINUOUS LOAD CURRENT	≤200 mA	OFF-STATE (LEAKAGE) CURRENT	<10 μA	NO-LOAD CURRENT	5.5-9.5 mA	TIME DELAY BEFORE AVAILABILITY	≤8 ms	POWER-ON EFFECT PROTECTION	INCORPORATED	REVERSE POLARITY PROTECTION	INCORPORATED	WIRE-BREAK PROTECTION	INCORPORATED	PROTECTION AGAINST TRANSIENTS	2 kV, 1 ms, 1 kΩ	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	RED: OUTPUT ENERGIZED	SENSING RANGE	10 mm = .394" (NOMINAL)	SWITCHING FREQUENCY	500 Hz	REPEATABILITY	≤2% of RATED OPERATING DISTANCE	EMBEDDABLE (SHIELDED)	YES
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