

3-Wire DC

Ripple.	≤10%
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor.	≤1.8 V
	- Si...K08/K10(AP71, AN7) ≤0.7 V
	- Bi/Ni../S34 ≤1.8 V
	- Bi 2-Q8SE-AP/AN.. . . . ≤2.5 V
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 mA)
Time Delay Before Availability	≤8 ms
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
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
	Bi 2-Q8SE-AP/AN.. ≤5% of Rated Operating Distance

4-Wire DC

Ripple.	≤10%
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor.	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 mA)
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
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

WIRING DIAGRAMS				LOCKNUT LN-M12				SPECIFICATIONS							
<p>OUTPUT: AP6X</p> <p>SHORT-CIRCUIT AND OVERLOAD PROTECTED</p>								OPERATING VOLTAGE				10-30 VDC			
								RIPPLE				≤10%			
				HYSTERESIS (DIFFERENTIAL TRAVEL)				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				2 mm = .079" (NOMINAL)							
SWITCHING FREQUENCY				2000 Hz											
REPEATABILITY				≤2% of RATED OPERATING DISTANCE											
EMBEDDABLE (SHIELDED)				YES											
MATERIAL				BRASS BARREL				<p>TURCK INC</p>							
FINISH				COPPER/NICKEL/ CHROME PLATING											
DRWN GMB				DATE 2/6/91				PART NO.							
CHKD				DATE				Bi2-G12-AP6X 50MM							
TMI								SIZE		ID NO.		REV			
REV				DESCRIPTION				B		4635400					
REVISIONS				DRFT				DATE				CHKD			
				DIMENSIONS ARE IN				INCHES		SCALE NONE		SHEET OF			
								mm		BMPC-D\4635400		DF			