Safety Digital Output Module Specifications

Attribute	1734-0B8S Series A	
Safety Output		
Outputs per module	8	
Output type	Current sourcing	
Output current (each output point)	1 A max	
Pulse width	475 μs	
Pulse period	575 ms	
Maximum field capacitance limit permitted per output	950 nF	
On-state voltage drop	0.165V	
Leakage current, max	0.1 mA	
Short-circuit detection	Yes (short high and low and cross-circuit fault detect)	
Short-circuit protection	Electronic	
Aggregate current of outputs per module	8 A (4 A per terminal base) @ 40 °C (104 °F)	
1734-0B8S temperature vs. current derating for both horizontal and vertical installations	8A	
	6A	
	4A	
	144	
	-20 °C 40 °C 55 °C (-4 °F) (104 °F) (131 °F)	
Reaction time	<6.2 ms	
POINTBus		
POINTBus current, max	190 mA	
Power dissipation, max ⁽¹⁾	4.5 W	
Power dissipation, typical	3.02 W	
Thermal dissipation, max	15.38 BTU/hr	
Isolation voltage	50V (continuous), Basic Insulation Type between field side and system No isolation between individual channels Type tested at 707V DC for 60 s	
Power bus, operating supply voltage	24V DC nom	
Power bus, operating voltage range	19.228.8V DC	
Power bus current (No Load), max	75 mA	
Indicators	1 yellow lock status indicator 1 green/yellow power status indicator 8 I/O channel status indicators	
Keyswitch positions (left and right)	Key 1 = 8 (left); Key 2 = 2 (right)	
Pilot duty rating	Not rated	
	T4	

Attribute	1734-0B8S Series A	
IEC temp code	T4	
Enclosure type rating	None (open-style)	
Wiring category ⁽²⁾	2 - on signal ports	
Wire size	Determined by installed terminal block	
Terminal block torque	Determined by installed terminal block	
Weight, approx	62.4 g (2.2 oz)	
Dimensions (HxWxD), approx (without terminal block)	77 x 25 x 55 mm (3.03 x 0.98 x 2.17 in.)	

⁽¹⁾ Maximum power dissipation applies when using 28.8 V DC module supply and maximum power dissipated for all eight outputs in the ON state.

Safety Analog Input Module Specifications

Attribute	1734-IE4S Series A	1734-IE4S Series A	
Safety Analog Input			
Inputs per module	4 single-ended	4 single-ended	
Input type	Software-configurable for	Software-configurable for voltage, current, or tachometer	
Input voltage mode ranges	±5V, ±10V, 05V, 010V		
Input current mode ranges	020 mA, 420 mA	020 mA, 420 mA	
Input tachometer mode ranges	024V with configurable	024V with configurable ON and OFF thresholds in 1V increments	
Voltage code range	Bipolar modes: -32768/+32767 Unipolar modes: 0/+32767		
Current code range (420 mA mode)	-8192+32767		
Tachometer code range	01000		
Voltage overrange thresholds	@ ±10V: 10.0V @010V: 10.0V	@±5V: 5.0V @05V: 5.0V	
Voltage underrange thresholds	@ ±10V: -10.0V @010V: 0.5V	@±5V: -5.0V @05V: 0.25V	
Current overrange thresholds	@ 020 mA: 20.0 mA	@420 mA: 20.0 mA	
Current underrange thresholds	@ 020 mA: 0.5 mA	@420 mA: 4.0 mA	
Tachometer frequency range	11000 Hz		
Tachometer overrange threshold	1 kHz		
ADC resolution	12 bits		
Filter	Single-pole anti-aliasing filter: Filter frequency = 10 Hz Followed by four-pole digital filter Available corner frequencies, approx.		
	• 1 Hz • 5 Hz	10 Hz50 Hz	
Step response to 63% (approx.) ⁽¹⁾	Filter frequency @ 1 Hz = 450 ms Filter frequency @ 5 Hz = 125 ms Filter frequency @ 10 Hz = 72 ms Filter frequency @ 50 Hz = 25 ms		

⁽²⁾ Use this conductor category information for planning conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.