Specifications

POINT I/O Protected Output Module – 1734-OB2E, 1734-OB4E, 1734-OB8E

Attribute	Value		
Number of outputs, non-isolated, sourcing	**1734-OB2E** – 2 (1 group of 2) **1734-OB4E** – 4 (1 group of 4) **1734-OB8E** – 8 (1 group of 8)		
On-state voltage, min	10V DC		
On-state voltage, nom	24V DC		
On-state voltage, max	28.8V DC		
On-state voltage drop, max	0.2V DC		
On-state current, min, per channel	1.0 mA		
Off-state voltage, max	28.8V DC		
Off-state leakage, max	0.5 mA		
Output signal delay[1], max Off to On On to Off	 0.1 ms 0.1 ms		
Output current rating	**1734-OB2E** – 1.0 A per output, 2.0 A max per module **1734-OB4E, 1734-OB8E** – 1.0 A per output, not to exceed 3.0 A max per module		
Surge current	2 A for 10 ms, repeatable every 3 s		
Indicators (field side indication, logic-driven)	**1734-OB2E** 2 yellow – output status 2 red – output fault 2 green/red – module/network status	**1734-OB4E** 4 yellow – output status 4 red – output fault 2 green/red – module/network status	**1734-OB8E** 8 yellow – output status 8 red – output fault 2 green/red – module/network status
Keyswitch position	1		
Field wiring terminations	**1734-OB2E** 0 – Output 0 1 – Output 1 2 – Output 0 3 – Output 1 4 – Common 5 – Common 6 – Supply 7 – Supply	**1734-OB4E** 0 – Output 0 1 – Output 1 2 – Output 2 3 – Output 3 4 – Common 5 – Common 6 – Common 7 – Common	**1734-OB8E** 0 – Output 0 1 – Output 1 2 – Output 2 3 – Output 3 4 – Output 4 5 – Output 5 6 – Output 6 7 – Output 7

(1) Off–on delay is time from a valid output "on" signal to output energization. On–off delay is time from a valid output "off" signal to output deenergization.

General Specifications

Attribute	Value
Terminal base screw torque	0.8 Nm (7 lb-in.)
Module location	1734-TB or 1734-TBS wiring base assembly
POINTBus current, max	75 mA @ 5V DC
Power dissipation @ 28.8V DC, max	**1734-OB2E** – 0.8 W **1734-OB4E** – 1.2 W **1734-OB8E** – 2.0 W
Thermal dissipation @ 28.8V DC, max	**1734-OB2E** – 2.7 BTU/hr **1734-OB4E** – 4.1 BTU/hr **1734-OB8E** – 6.8 BTU/hr
Isolation voltage	50V (continuous), Reinforced Insulation Type Tested @ 2500V DC for 60 s, field-side to system
External DC power supply voltage, nom	24V DC
External DC power voltage range	10...28.8V DC
External DC power supply current	**1734-OB2E** – 8 mA **1734-OB4E** – 16 mA **1734-OB8E** – 32 mA
Dimensions, HxWxD	56.0 x 12.0 x 75.5 mm (2.21 x 0.47 x 2.97 in.)
Wiring category[1]	1 – on signal ports
Wire size	Determined by installed terminal block
Weight (approx.)	**1734-OB2E** – 32.60 g (1.15 oz) **1734-OB4E** – 33.17 g (1.17 oz) **1734-OB8E** – 35.4 g (1.25 oz)
Enclosure type rating	None (open-style)
North American temp code	**1734-OB2E** – T4A **1734-OB4E** – T4A **1734-OB8E** – T4
IEC temp code	T4

(1) Use this conductor category information for planning conductor routing as described in Industrial Automation Wiring and Grounding Guidelines, publication 1770-IN041.

Environmental Specifications

Attribute	Value
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...55 °C (-4...131 °F)
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -40...85 °C (-40...185 °F)
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% non-condensing
Vibration	IEC 60068-2-6, (Test Fc, Operating) 5 g @ 10...500 Hz
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g
Emissions	CISPR 11: Group 1, Class A
ESD immunity	IEC 61000-4-2: 6 kV contact discharges 8 kV air discharges
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 1V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity	±4 kV @ 5 kHz on signal ports
Surge transient immunity	IEC 61000-4-5: ±1 kV line-line (DM) and ±2 kV line-earth (CM) on signal ports
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz