

Specifications

ArmorPoint 24V DC Input Module, Series A - 1738-IB16DM12

Attribute	Value
Inputs per module	1 group of 16, nonisolated
On-state voltage	10V DC minimum 24V DC nominal 28.8V DC maximum
On-state current	2 mA minimum 4 mA @ 24V DC nominal 5 mA maximum
Off-state voltage	5V DC
Off-state current	1.5 mA
Current, sensor source, per input	50 mA maximum
Current, sensor source, per module	800 mA maximum
Field power supply voltage range	10...28.8V DC
Input delay time ⁽¹⁾ OFF to ON / ON to OFF	0.5 ms hardware + (0...63 ms selectable)
Input point density	16

⁽¹⁾ Input OFF to ON or ON to OFF delay is time from a valid input signal to recognition by the module.

**ArmorPoint 24V DC Output Modules, Series A - 1738-OB16E19M23,
1738-OB16EM12, 1738-OB16E25DS**

Attribute	Value
Number of outputs	1 group of 16, nonisolated sourcing outputs
On-state voltage drop	0.2V DC maximum
On-state voltage	10V DC minimum 24.V DC nominal 28.8V DC maximum
On-state current per channel	1.0 mA minimum 0.5 A maximum, electronically protected
Off-state voltage	28.8V DC maximum
External DC supply voltage	10...28.8V DC range 24V DC nominal
Off-state current leakage	0.5 mA
Output current rating	4.0 A per module maximum 0.5 A per channel maximum
Output surge current	1 A maximum, electronically protected
Output delay time ⁽¹⁾ OFF to ON / ON to OFF	0.1 ms
Output point density	16
Pilot duty rating	1.3 A Inrush

⁽¹⁾ OFF to ON or ON to OFF delay is time from a valid output on or off signal to output energization or de-energization.

General Specifications

Attribute	Value
Power dissipation	1738-OB16E19M23, 1738-OB16EM12, 1738-OB16E25DS – 3.0W @ 28.8V DC
	1738-IB16DM12 – 2.7W @ 28.8V DC maximum
Thermal dissipation	1738-OB16E19M23, 1738-OB16EM12, 1738-OB16E25DS – 10.3 BTU/hr @ 28.8V DC
	1738-IB16DM12 – 9.2 BTU/hr @ 28.8V DC maximum
Isolation voltage	50V (continuous), Reinforced Insulation Type, field-side to system Type tested at 1000V DC for 60 s, field-side to system No isolation between individual channels
Dimensions (HxWxD), approx.	120 x 72 x 42 mm 4.72 x 2.83 x 4.25 in including I/O and mounting base
Weight	290 g (10.24 oz)
LED indicators	16 yellow input/output status, logic side 1 green/red network status, logic side 1 green/red module status, logic side 1 red fault status, logic side
PointBus current	1738-OB16E19M23, 1738-OB16EM12, 1738-OB16E25DS – 150 mA @ 5V DC maximum
	1738-IB16DM12 – 75 mA @ 5V DC maximum
Wiring category ⁽¹⁾	1 - on signal ports
Keyswitch position	1
Enclosure type rating	Meets IP65/66/67/69K (when marked)
Mounting base screw torque	#8 screw 0.85 Nm (7.5 lb-in) in Aluminum 1.81 Nm (16 lb-in) in Steel

⁽¹⁾ Use this Conductor Category information for planning conductor routing. Refer to Publication [1770-4.1](#), Industrial Automation Wiring and Grounding Guidelines.