



ControlLogix 16 Pt Digital Relay Module

Lifecycle status: ACTIVE

Technical Specifications

Electrical

Suitable for safety functions	No
Digital inputs configurable	No
Digital outputs configurable	No
Voltage type of supply voltage	DC
Type of voltage (input voltage)	DC
Type of digital output	Relay
Type of electric connection	Screw connection
Bounce time, mean	1.2 μ s
Total backplane power	4.4 W
Thermal dissipation	15.35 BTU/h
Current draw	150 mA @ 5.1V, 150 mA @ 24V
Expected contact life	300 kHz, resistive, 100 kHz, inductive
Module keying	Electronic, software configurable
Outputs	16 N.O. individually isolated
Scheduled outputs	Synchronization within 16.7 s max, reference to the coordinated system time
Power dissipation, max	4.5 W @ 60 °C (140 °F)
Isolation voltage	250V (continuous), basic insulation type, outputs-to-backplane, and output-to-output

Wire category	Wire category: 1
Fusing	Not protected. A fused IFM can be used to help protect outputs. See publication 1492-TD008. However, the ControlLogix system has been agency certified using only the ControlLogix RTBs, that is, 1756-TBCH, 1756-TBNH, 1756-TBSH, and, 1756-TBS6H. Any applic
Redundancy	No
Short-circuit protection, outputs available	No
Pilot duty	C300, R150
Initial contact resistance, max	100 mΩ @ 6V, 1 A
Switching frequency, max	1 operation/3 s (0.3 Hz at rated load)
States in fault mode per point	Hold last state, On or Off (Off is default)
States in program mode per point	Hold last state, On or Off (Off is default)

Mechanical

Slot width	1
RTB keying	User-defined mechanical
Shock	Operating: 30 G, Non operating: 50 G
Vibration	2 G @ 10...500 Hz

Environmental

Surrounding air temperature, max	60 °C
North American temperature code	T4A
Emissions	IEC 61000-6-4
ESD immunity	6 kV contact discharges, 8 kV air discharges
Relative humidity	5...95% noncondensing
Conducted RF immunity	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
EFT/B immunity	±4 kV at 5 kHz on signal ports
Operating temperature	0 to 60 °C
Surge transient immunity	±1 kV line-line (DM) and ±2 kV line-earth (CM) on signal ports
Radiated RF immunity	10 V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz, 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz, 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz, 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
Nonoperating temperature	-40 °C
Oscillatory surge withstand	IEEE C37.90.1: 3kV

Output Specifications

Off-state leakage current per point, max	1.5 mA
Load current per point, min	10 mA
Output delay time	OFF to ON: 10 ms maximum, ON to OFF: 10 ms maximum

Input Specifications

Operating voltage	5...125V DC, 10...240V AC
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Voltage and current ratings

Output voltage	1 A @ 5...30V DC 0.5 A @ 48V DC 0.22 A @ 125V DC 1.5 A @ 120V AC, 50/60 Hz 0.75 A @ 240V AC, 50/60 Hz
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Construction

Enclosure type	None (open-style)
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Certifications

- Safety
- CE

This product was certified with the above certifications as of 2023-10-19. Products sold before or after this date might carry different certifications. Please review the product label to check for the certifications your specific product carries.



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