



Catalog #: 1762-IQ80W6 Best Selling

MicroLogix 14 Point Digital Comb Module

Lifecycle status: Active Mature

Technical Specifications

Electrical

Number of digital inputs	8
Time delay at signal exchange	8 ms
Suitable for safety functions	No
Digital inputs configurable	No
Digital outputs configurable	No
Type of voltage (input voltage)	DC
Type of electric connection	Screw connection
Nominal Impedance	3 kOhm
Number of commons	Input : 2, output : 1
Heat dissipation, max	5.0 W @ 30V DC
Bus current draw, max	80 mA @ 24V DC
ON-state current, max	12.0 mA @ 30V DC
Inrush current, max	250 mA
Power supply distance rating	6 (the module may not be more than 6 modules away from the system power supply)
On-state current, nom	8.0 mA @ 24V DC
Isolated groups	Group 1: inputs 0...3, Group 2: inputs 4...7, Group 3: output 0...5

Input group to backplane isolation	Verified by one of the following dielectric tests: 1200V AC for 1 s or 1697V DC for 1 s 75V DC working voltage (IEC Class 2 reinforced insulation)
Redundancy	No
Short-circuit protection, outputs available	No

Mechanical

Width	40.4 mm
Height	90 mm
Depth	87 mm
Weight	280 g
Shock	Operating: 30G panel mounted, 3 pulses per axis Relay Operation: 7G
Vibration	Operating: 10 to 500 Hz, 5G, 0.030 in. max. peak-to-peak, 2 hours per axis. Relay Operation: 1.5G

Input specifications

IEC input compatibility	Type 1+
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Digital Output Specification

Signal delay	On delay: 10.0 ms
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Input Specifications

Off-state voltage, max	5V DC
On-state voltage, min	10V DC
Voltage category	24V DC sink/source
On-state current, min	2.0 mA @ 10V DC
Operating voltage	10...30V DC @ 30 °C (86 °F) 10...26.4V DC @ 65 °C (149 °F)

Output Specifications

Off-state leakage current, max	0 mA
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Environmental

ESD immunity	IEC1000-4-2: 4kV contact, 8kV air, 4kV indirect
Conducted RF immunity	IEC 1000-4-6: 10V, 0.15...80 MHz
EFT/B immunity	IEC1000-4-4: 2kV, 5 kHz

Hazardous environment class	Class I, Division 2, Hazardous Location, Groups A, B, C, D (UL 1604, C-UL under CSA C22.2 No. 213)
Operating temperature	-20 to 65 °C
Surge transient immunity	IEC1000-4-5: 2 kV common mode, 1 kV differential mode
Radiated RF immunity	IEC1000-4-3: 10 V/m, 80...1,000 MHz, 80% amplitude modulation, +900 MHz keyed carrier
Altitude	2000 m
Storage temperature, min	-40 °C
Radiated and conducted emissions	EN50081-2: Class A
Operating humidity	5...95% noncondensing
Off-state current	1.5 mA

Digital Input
Specification

Documentation

For all available documentation, please see the [literature results](#).

Certifications

- UL Listed Hazardous

This product was certified with the above certifications as of 2024-06-26. 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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