



Commercial status

To be discontinued on: 31 December 2022

End-of-service soon on: 31 December 2030

⚠ To be discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Low voltage dc discrete input modules
Discrete input number	32

Complementary

Group of channels	4
Logic input	Negative (source)
Discrete input voltage	24 V DC
Input voltage limits	19.2...30 V
Voltage state 1 guaranteed	-30...-15 V DC
Voltage state 0 guaranteed	-5...0 V DC
Current state 1 guaranteed	≥ 2.5 mA at $U_s = -14$ V
Current state 0 guaranteed	≤ 0.5 mA
Addressing requirement	2 input words
Input impedance	2400 Ohm
Maximum leakage current	200 mA at $U_s = 5.5$ V and $U_{in} = 4$ V
Absolute maximum input	30 V continuous 50 V during 1 ms decaying pulse
Response time	≤ 1 ms from state 0 to state 1 ≤ 1 ms from state 1 to state 0
Protection type	Input protection by resistor limited
Power dissipation	1.5 W + (0.26 x number of points on)
Isolation between group and bus	1780 Vrms for 1 minute
Isolation between group	500 Vrms for 1 minute
Local signalling	1 LED (green)bus communication is present (Active): 1 LED (red)external fault detected (F): 32 LEDs (green)input status:
Marking	CE

Bus current requirement	330 mA
Module format	Standard
Net weight	0.3 kg

Environment

Standards	UL 508 CSA C22.2 No 142
Product certifications	RINA GOST FM Class 1 Division 2 C-Tick RMRS
Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	410 g
Package 1 Height	4.7 cm
Package 1 width	16.4 cm
Package 1 Length	31.3 cm
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Weight	3.37 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

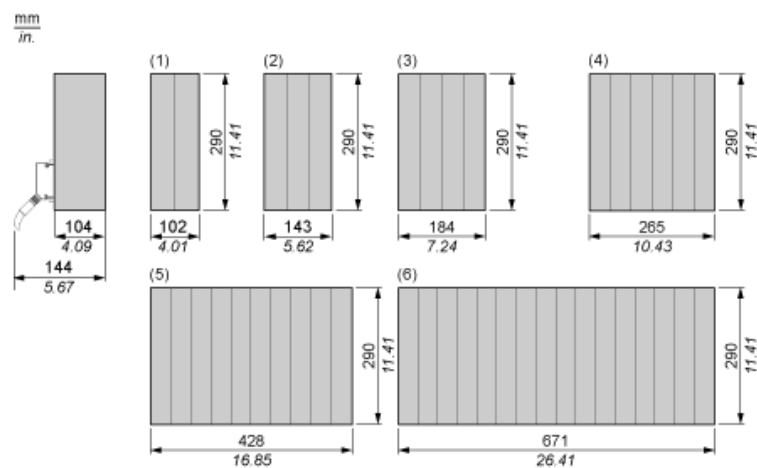
Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

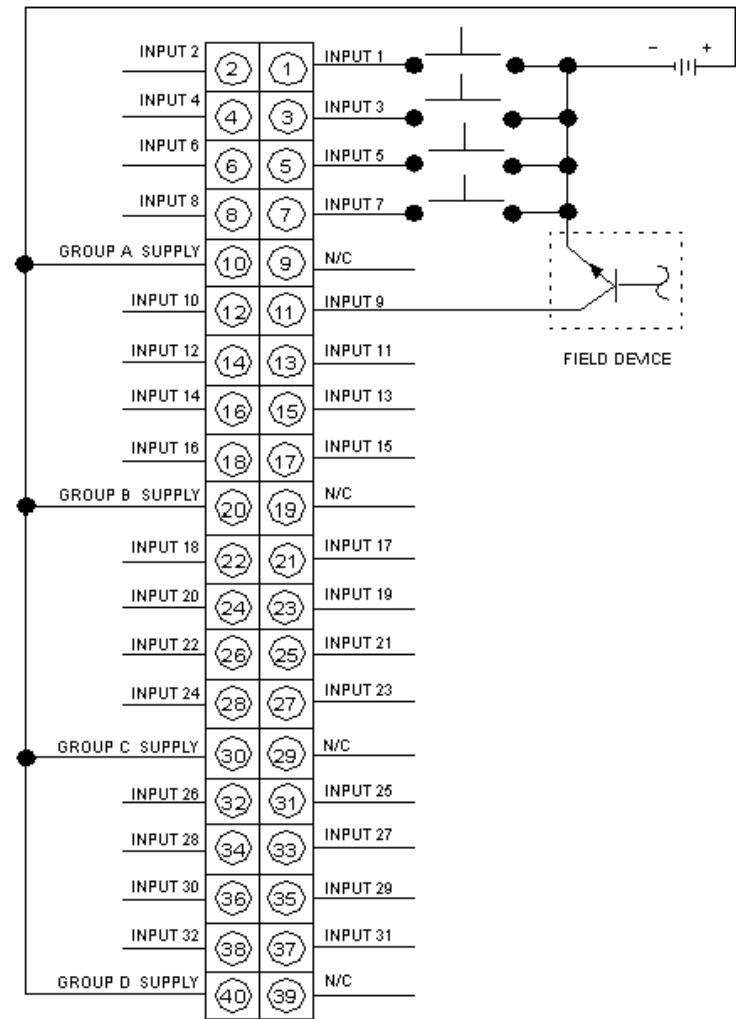
Dimensions of Modules and Racks



- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

24 Vdc Discrete Input Source Module

Wiring Diagram



N/C Not Connected