

Product data sheet

Specifications



Modicon Quantum low voltage discrete input module - 32 I - negative logic

140DDI15310C

⚠ Discontinued on: 31 December 2021

⚠ To be end-of-service on: 31 December 2029

⚠ Discontinued - Service only

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	5 V TTL DC
Input voltage limits	4.5...5.5 V
Voltage state 1 guaranteed	0.8 V DC
Voltage state 0 guaranteed	>= 4 V DC at 5.5 V supply voltage
Current state 1 guaranteed	4 mA
Addressing requirement	2 input words
Input impedance	7500 Ohm
Maximum leakage current	200 mA at Us = 5.5 V and Uin = 4 V
Absolute maximum input	15 V during 1.3 ms decaying pulse 5.5 V continuous
Response time	<= 250 µs from state 0 to state 1 <= 500 µs from state 1 to state 0
Protection type	Input protection
Power dissipation	5 W
Isolation between group and bus	1780 Vrms for 1 minute
Isolation between group	500 Vrms for 1 minute
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 32 LEDs (green) for input status
Marking	CE
Bus current requirement	170 mA
Module format	Standard
Net weight	0.45 kg

Environment

Protective treatment	Conformal coating Humiseal 1A33
Standards	UL 508 CSA C22.2 No 142
Product certifications	GOST FM Class 1 Division 2 cUL
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 Height	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	428 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	852 g

Offer Sustainability

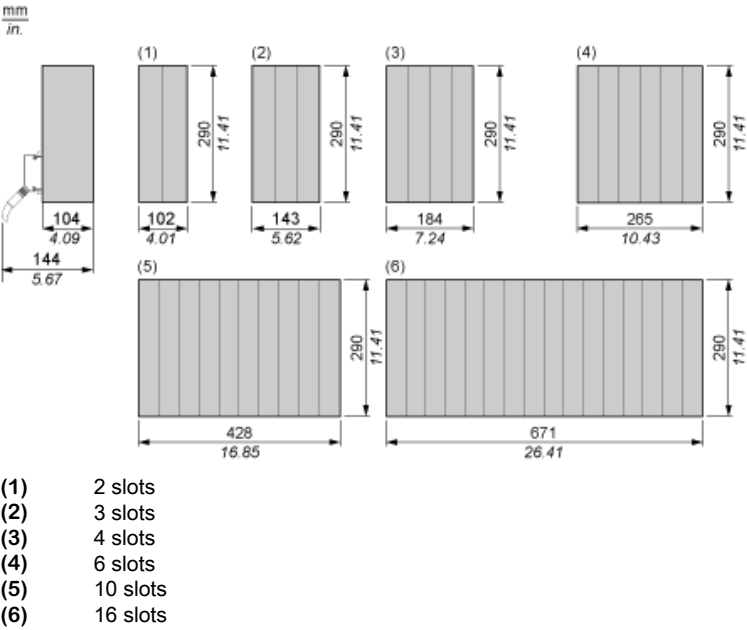
Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity 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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty	18 months
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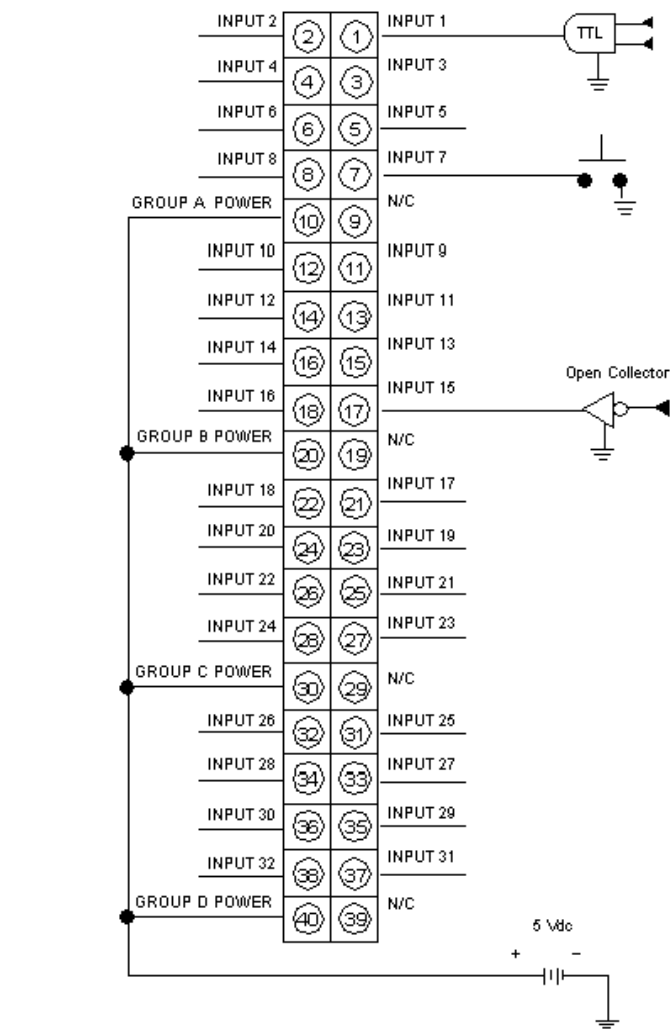
Racks for Modules Mounting

Dimensions of Modules and Racks



5 Vdc Discrete Input Source Module

Wiring Diagram



N/C Not Connected

Recommended replacement(s)