



Main

Range of product	Modicon Quantum automation platform
Product or component type	High-speed counter module
Number of channels	2

Complementary

Addressing requirement	6 input words 6 output words
Data format	65535 dec 16 bits 2147483647 dec 32 bits
Counting input type	Incremental or quadrature
Counting frequency	500000 Hz
Discrete input voltage	< 30 V
Operating mode	Incremental or quadrature discrete input
Input resistance	10 kOhm discrete input
Operating threshold	3.5...5 V single ended mode 5 V DC at state off >= 1.8 V differential mode 2...7 V single ended mode 12 V DC at state off 13...24 V single ended mode 24 V DC at state on 0 V single ended mode 12 V DC at state on 0...2 V single ended mode 5 V DC at state on 0...11 V single ended mode 24 V DC at state off
Discrete output number	4
Discrete output type	Field Effect Transistor (FET)
Discrete output voltage	0.4 V switch on DC 0 V switch off DC
Load current	0.5 A
Leakage current	<= 0.4 mA state off
Voltage drop	0.4 V state on
Protection type	36 V transorb discrete output
Isolation between channels and bus	1780 Vrms for 60 s
Fault type	Loss of output field power
Output short-circuit protection	Blown fuse 2.5 A
Power dissipation	4 + (0.4 x total module load current)
Bus current requirement	650 mA
External power requirement	19.2...30 V
Rack type	Distributed Local Remote
Local signalling	2 LEDs channel status
Marking	CE

Current consumption	<= 1050 mA 24 V DC external power supply
Module format	Standard

Environment

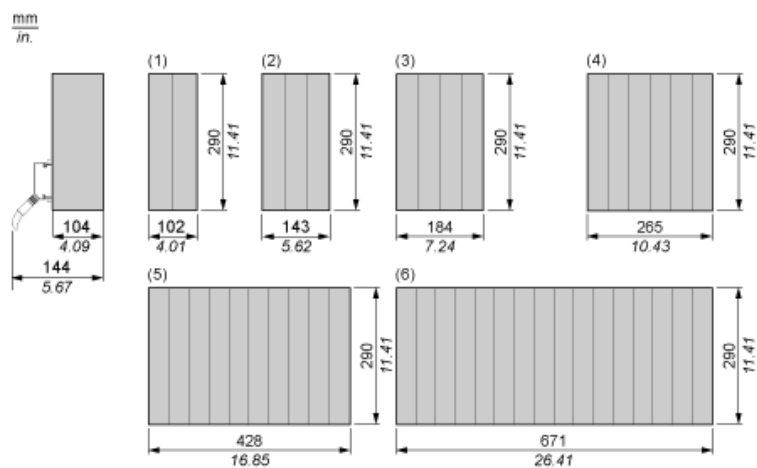
Resistance to electrostatic discharge	8 kV on air conforming to IEC 801-2 4 kV contact conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m
Standards	UL 508
Product certifications	CSA No 142 C-Tick.1 FM Class 1 Division 2 UL

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0901 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

Racks for Modules Mounting

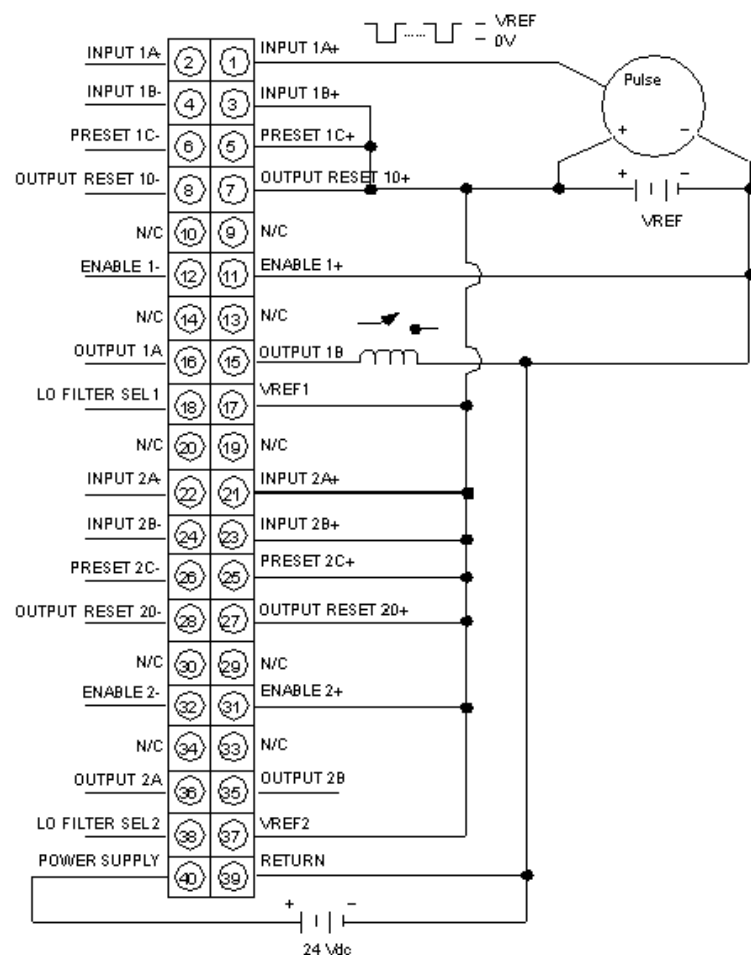
Dimensions of Modules and Racks



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

Two-Channel High Speed Counter Module

Wiring Diagram for a Single Ended Pulse Encoder



N/C Not Connected

Refer to the user guide for differential pulse encoder input and single ended/differential quadrature encoder input wiring diagrams.