



### Main

Range of product	Modicon Quantum automation platform
Product or component type	Low voltage dc discrete input modules
Discrete input number	32
Group of channels	4
Logic input	Negative (source)
Discrete input voltage	24 V DC
Local signalling	1 LED green bus communication is present (Active) 1 LED red external fault detected (F) 32 LEDs green input status
Module format	Standard

### Complementary

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
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 1 to state 0 ≤ 1 ms from state 0 to state 1
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
Marking	CE
Bus current requirement	330 mA
Product weight	0,3 kg

### Environment

Standards	CSA 22-2 No 142 UL 508
Product certifications	C-Tick FM Class 1 Division 2 GOST RINA RMRS
Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz 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
RoHS EUR conformity date	0843
RoHS EUR status	Compliant