# **Product data sheet**

Specifications





# discrete input module Modicon Quantum - 16 I - 10..60 V DC

140DDI84100C

! Discontinued on: Mar 15, 2022

### ① Discontinued

### Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Dc discrete input modules
Discrete Input Number	16

## Complementary

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Group Of Channels	8
Logic Input	Positive (sink)
Input Voltage Limits	1060 V
Input Voltage	12 V 510 mA DC 24 V 630 mA DC 48 V 215 mA DC 60 V 15 mA DC
Voltage State 1 Guaranteed	1124 V 24 V +/- 20 % 3448 V 48 V +/- 20 % 4560 V 60 V +/- 20 % 912 V 12 V +/- 5 %
Voltage State 0 Guaranteed	01.8 V 12 V +/- 5 % 010 V 48 V +/- 20 % 05 V 24 V +/- 20 % 09 V 60 V +/- 20 %
Absolute Maximum Voltage	75 V
Addressing Requirement	1 input word
Response Time	4 ms from state 0 to state 1 4 ms from state 1 to state 0
Switching Frequency	<= 100 Hz
Isolation Between Group And Bus	2500 Vrms DC for 1 minute
Isolation Between Group	700 Vrms DC for 1 minute
Power Dissipation	1 W + (0.62 x number of points on)
Marking	CE
Local Signalling	for bus communication is present (Active) 1 LED (green) for external fault detected (F) 1 LED (red) for input status 16 LEDs (green)
Bus Current Requirement	200 mA
Module Format	Standard
Net Weight	0.66 lb(US) (0.3 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

## **Environment**

Protective Treatment	Conformal coating Humiseal 1A33
Standards	CSA C22.2 No 142 UL 508
Product Certifications	FM Class 1 Division 2 C-tick
Resistance To Electrostatic Discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 802000 MHz IEC 801-3
Ambient Air Temperature For Operation	32140 °F (060 °C)
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Relative Humidity	95 % without condensation
Operating Altitude	<= 16404.2 ft (5000 m)

# Ordering and shipping details

Category	18155-QUANTUM I/O & POWER SUPPLIES PC21	
Discount Schedule		
Gtin	3595861136649	
Returnability	No	
Country Of Origin	CN	

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.42 in (16.3 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	12.28 in (31.2 cm)
Package 1 Weight	16.51 oz (468.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	2.65 lb(US) (1.2 kg)

## **Contractual warranty**

Warranty 18 months



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RoHS/REACh

### Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>②</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

### **Certifications & Standards**

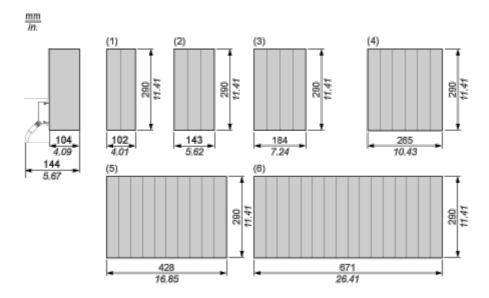
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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 cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

### 140DDI84100C

### **Dimensions Drawings**

### **Racks for Modules Mounting**

#### **Dimensions of Modules and Racks**

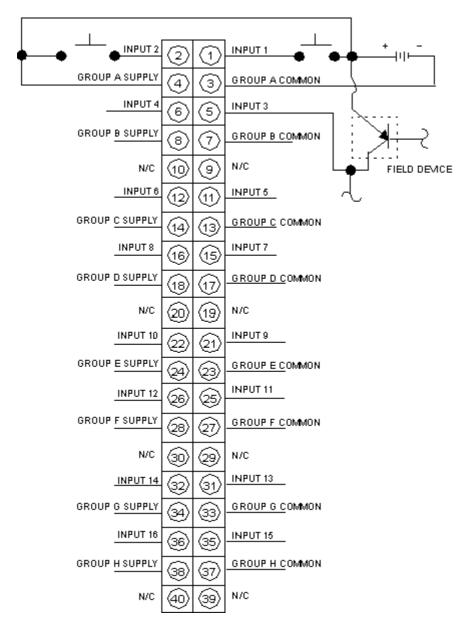


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

#### 60 Vdc Discrete Input Sink Module

#### Wiring Diagram



N/C Not Connected