

Product data sheet

Specifications



intrinsically safe discrete input module Modicon Quantum

140DII33000

⚠ Discontinued on: Jul 12, 2021

⚠ Discontinued

Main

Range of Product	Modicon Quantum automation platform
Product or Component Type	Intrinsically safe discrete input module
Software Designation	ProWORX Concept Unity Pro
Software Version	V2.2 and above

Complementary

Product destination	In conjunction with products for zone 20, 21 or 22
Discrete input number	8
No load voltage	8 V
Short-circuit current	8 mA
Switching hysteresis	0.2 mA
Current state 0 guaranteed	<= 1.2 mA
Current state 1 guaranteed	>= 2.1 mA
Switching frequency	100 Hz
Response time	1 ms resistive at state 0 to state 1 1 ms resistive at state 1 to state 0
Internal resistance	2.5 kOhm
Protection Type	Resistor limited Internal by fuse
Isolation between channels and bus	2500 V for 1 minute DC 1780 V 47...63 Hz AC
Fault type	Resistor limited
Hot swapping fallback	Not allowed per intrinsic safety standards
Power dissipation in W	2 W
Marking	CE II1 G/D-EEEx ia IIC
Bus current requirement	0.4 A
Module format	Standard
Net Weight	0.7 lb(US) (0.3 kg)

Environment

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	EN 50039 EN 50020 UL 508 CSA C22.2 No 142 EN 50014 EN 50284 Directive ATEX 94/9/EC EN 50281-1-1
Dust zone	Outside zone
Product Certifications	FM Class 1 Division 2
Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 80...1000 MHz IEC 801-3
Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative Humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	18155-QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
GTIN	3595860026088
Returnability	No
Country of origin	US

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

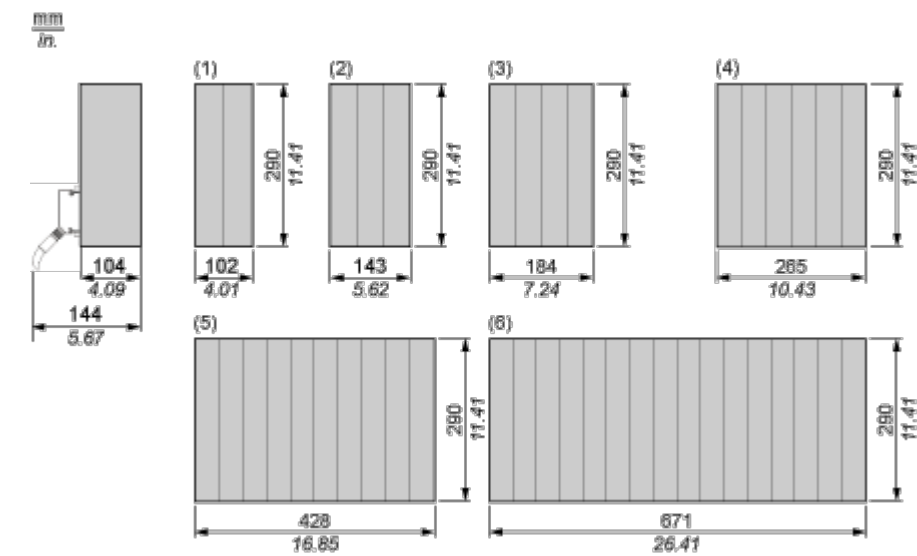
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

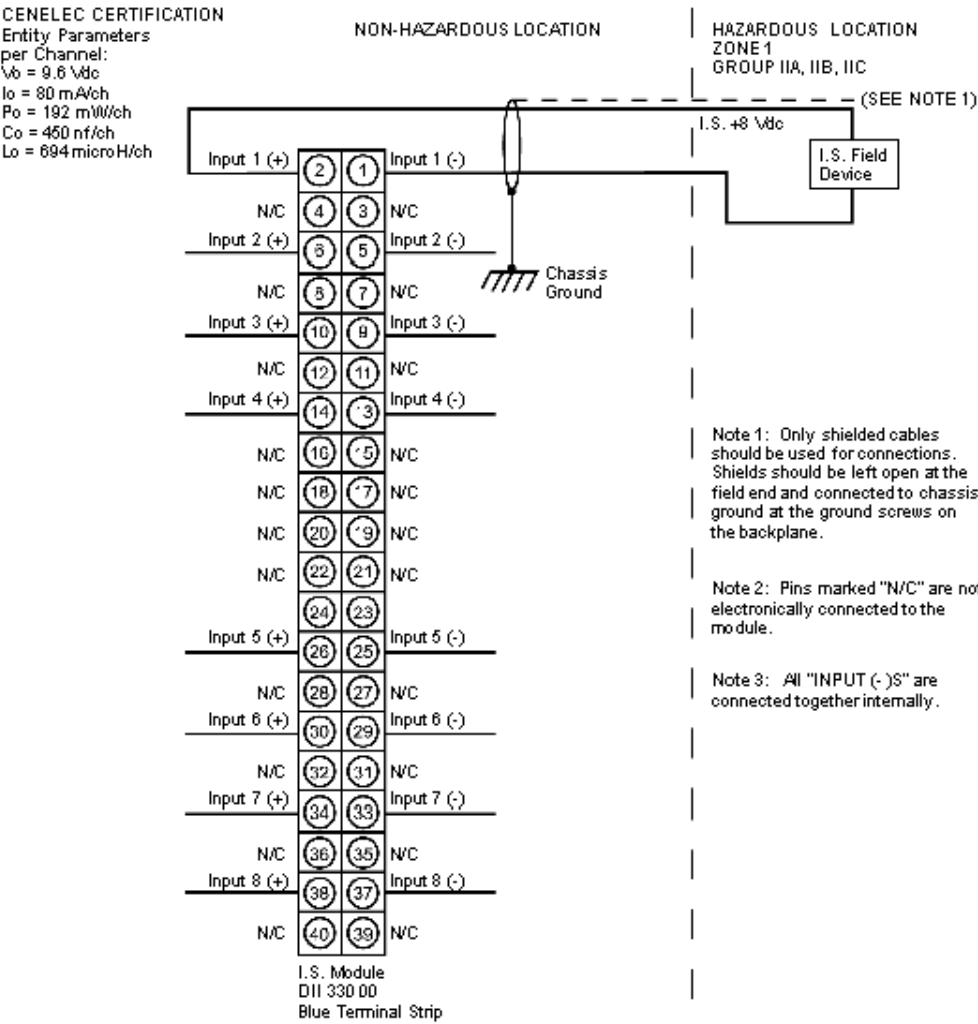


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

Intrinsically Safe Discrete Input Module

Cenelec Certified Wiring Diagram



31001365 Rev 00 140 DII 330 00 Wiring Diagram