

Product datasheet

Specifications



intrinsically safe discrete output module - open collector - 24 V - 5 W

140DIO33000C

⚠ Discontinued on: 31 Dec 2010

⚠ End-of-service on: 31 Dec 2014

⚠ Discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Intrinsically safe discrete output module
Software designation	Concept version V2.2 and above ProWORX Unity Pro

Complementary

Product destination	In conjunction with products for zone 20, 21 or 22
Discrete output voltage	24 V
Discrete output type	Open collector
Maximum load current	360 mA per module 45 mA per point
off state leakage current	0.4 mA per point
Response time	1 ms resistive at state 0 to state 1 1 ms resistive at state 1 to state 0
Protection type	Internal fuse Transient voltage suppression
Hot swapping fallback	Not allowed per intrinsic safety standards
Power dissipation in W	5 W
Isolation between channels and bus	2500 V DC for 1 minute 1780 V 47...63 Hz AC
Marking	II1 G/D-EEx ia IIC CE
Bus current requirement	2.2 A
Module format	Standard
Net weight	0.45 kg

Environment

Protective treatment	Conformal coating Humiseal 1A33
Standards	Directive ATEX 94/9/EC EN 50039 EN 50014 CSA C22.2 No 142 UL 508 EN 50020 EN 50284 EN 50281-1-1
Dust zone	Outside zone

Product certifications	SIRA 02ATEX2345X FM Class 1 Division 2 C-Tick GOST
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

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

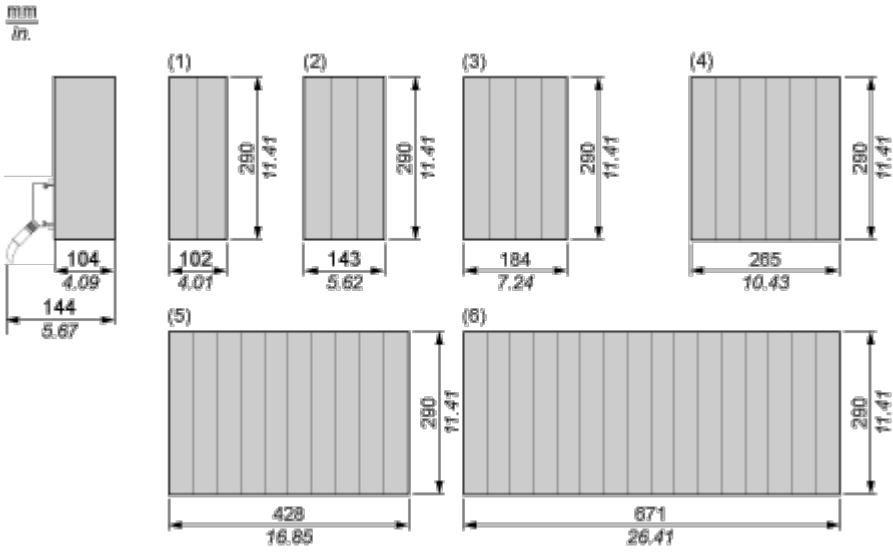
Repair

No

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



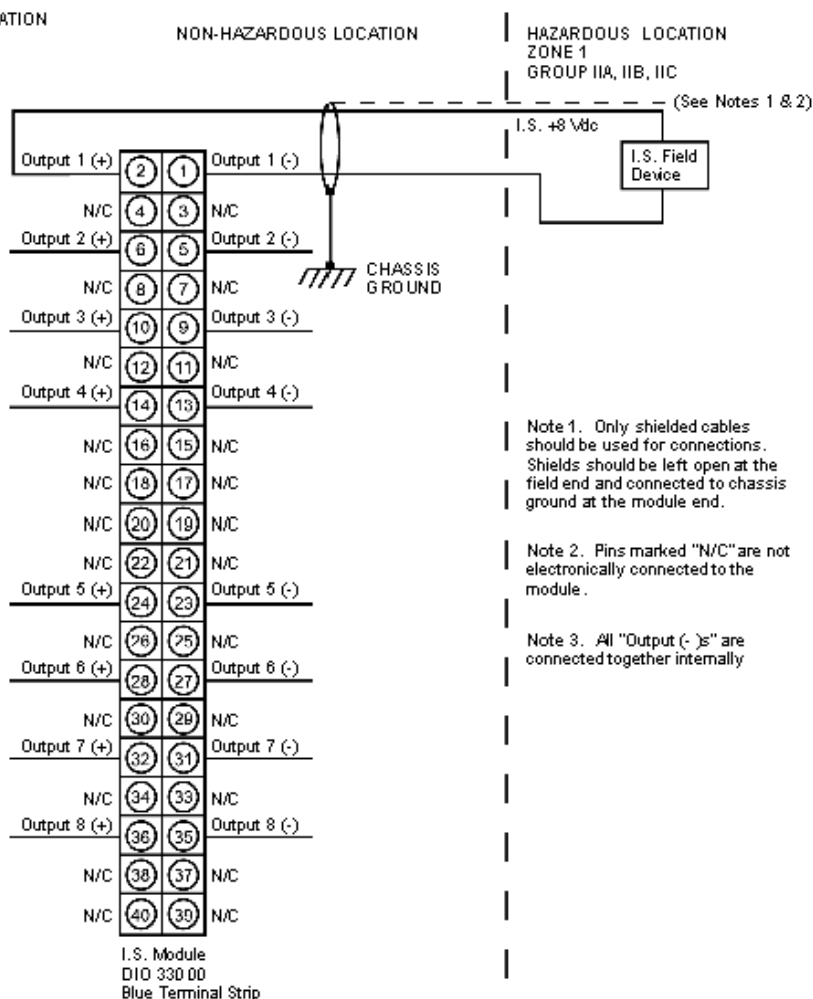
- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

Intrinsically Safe Discrete Output Module

Cenelec Certified Wiring Diagram

CENELEC CERTIFICATION
 Entity Parameters
 per Channel:
 $V_b = 27.9 \text{ Vdc}$
 $I_o = 121 \text{ mA/ch}$
 $P_o = 840 \text{ mW/ch}$
 $C_o = 84 \text{ nF/ch}$
 $L_o = 2.2 \text{ mH/ch}$



31001366 Rev 00

140 DIO 330 00 Wiring Diagram