

Schneider 140DDO15310C Manual

Brand	Schneider
Product Series	Schneider
Product Type	TTL Discrete Output Module

Description

The Modicon Quantum 140DDO15310C from Schneider Electric functions as a TTL discrete output module. It comprises 32 channels capable of sourcing TTL positive signals with an output voltage of 5 V DC.

Technical specifications for 140DDO15310C

Manufacturer Schneider Electric

Product Type TTL Discrete Output Module

Product Line Modicon Quantum

Part Number 140DDO15310C

EAN 3595861135895

Output Channels 32

Output Type TTL Positive (sink)

Addressing Requirement 2 Output Words

Output Voltage 5 V DC

Internal Pullup Resistor 440 Ohm

Surge Current 750 A

Power Dissipation 4 W

Marking CE

Format Standard

Bus Current Requirement 350 mA

Ambient Temperature 0 to 60 °C

Standards UL 508, CSA

Protective Treatment Conformal Coating

Description

The Schneider Electric 140DDO15310C TTL discrete output module belongs to the Modicon Quantum series. This module offers 32 output channels that deliver TTL positive (sink) signals. Designed for compatibility with various systems, it operates at a low output voltage of 5 V DC, enabling efficient performance in typical industrial applications.

Addressing the module requires two output words, facilitating integration into larger control schemes. It features an internal pullup resistor rated at 440 ohms, which aids in signal integrity. During operation, the module can withstand surge currents up to 750 Amperes, ensuring resilience against electrical spikes.

The unit has a rated power dissipation of 4 watts, making it energy-efficient in continuous use. With a bus current requirement of 350 mA, it is essential to consider when designing systems to ensure proper power supply allocation. This module is designed to function in environmental conditions ranging from 0 to 60 °C, reinforcing its versatility across different applications.

Weighing just 0.45 kilograms, the 140DDO15310C maintains a compact footprint in various control configurations. Compliance with UL 508 and CSA standards enhances its reliability in industrial environments. The protective conformal coating further safeguards against environmental factors, ensuring long-term stability and operational integrity.

Range of Product

Modicon Quantum automation platform

Product or Component Type

TTL discrete output module

Discrete output number

32

Complementary

Group of channels

4 groups of 8 channels

Discrete output type

TTL

Positive (sink)

Addressing requirement

2 output words

Discrete output voltage

5 V DC

Voltage state 1 guaranteed

≤ 0.2 V

[Us] rated supply voltage

4...5.5 V DC

Absolute maximum output

15 V 0.0013 s decaying voltage pulse DC

Internal pullup resistor

440 Ohm

Maximum load current

≤ 2.4 A per module

≤ 600 mA each group

≤ 75 mA each point

Surge current

750 A 0.5 ms between each point

Response time

≤ 250 μ s at state 0 to state 1 resistive

≤ 250 μ s at state 1 to state 0 resistive

Protection Type

Output protection by transient voltage suppression

Internal by fuse

Fault indication

Blown fuse

Loss of field power

Power dissipation

4 W

Maximum supply current

0.4 A

Isolation between group

500 Vrms for 1 minute

Marking

CE

Local signalling

1 LED (green) for bus communication is present (Active)

1 LED (red) for external fault detected (F)

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32 LEDs (green) for input status

Bus current requirement

350 mA

Current consumption

2800 mA 5 V DC

Module format

Standard

Net Weight

0.99 lb(US) (0.45 kg)

Environment

Protective treatment

Conformal coating Humiseal 1A33

Product Certifications

FM Class 1 Division 2

C-tick

RMRS

GOST

Standards

CSA C22.2 No 142

UL 508

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...2000 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

3595861135895

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

6.4 in (16.3 cm)

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Package 1 Width

1.8 in (4.5 cm)

Package 1 Length

12.3 in (31.2 cm)

Package weight(Lbs)

15.7 oz (446.0 g)

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