

Product datasheet

Specifications



Discrete input module, Modicon M238 logic controller, 16 inputs 24 V DC, 1 removable screw terminal block

TM2DDI16DT

! Discontinued - Service only

! Discontinued on: 1 Aug 2023

! End-of-service on: 30 Jun 2024

Main

Range of product	Modicon M238 logic controller
Product or component type	I/O expansion module
Discrete input number	16
Discrete input voltage	24 V
Discrete input voltage type	DC

Complementary

Range compatibility	Twido Advantys OTB
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink or source
Discrete input current	7 mA
Input impedance	3.4 kOhm
Number of common point	1
Response time	4 ms at state 0 4 ms at state 1
Isolation between channels	None
Isolation between channels and internal logic	500 V for 1 minute
Current consumption	40 mA at 5 V DC at state 1 for all input
Local signalling	1 display block
Electrical connection	1 removable screw terminal block
Mounting support	35 mm symmetrical DIN rail
Net weight	0.065 kg

Environment

Depth	84.6 mm
Height	90 mm
Width	23.5 mm

Packing Units

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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.4 cm
Package 1 Width	10.6 cm
Package 1 Length	12.8 cm
Package 1 Weight	196.0 g

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 Better

Materials and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

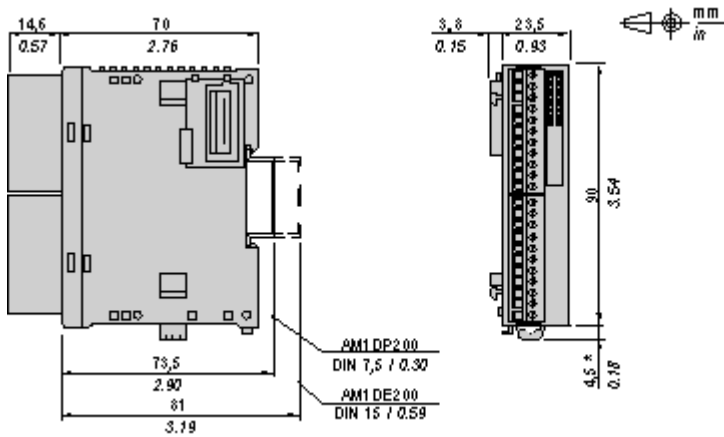
Use Again

Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Digital Input Module (16-channel, 24 Vdc)

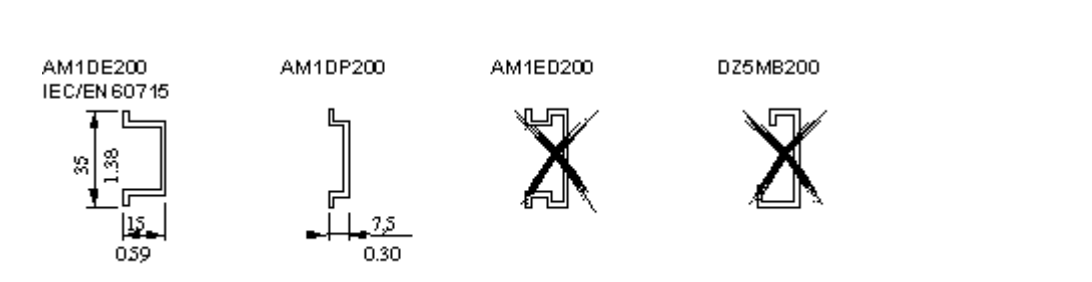
Dimensions



NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

Mounting and Clearance

DIN Rail Mounting

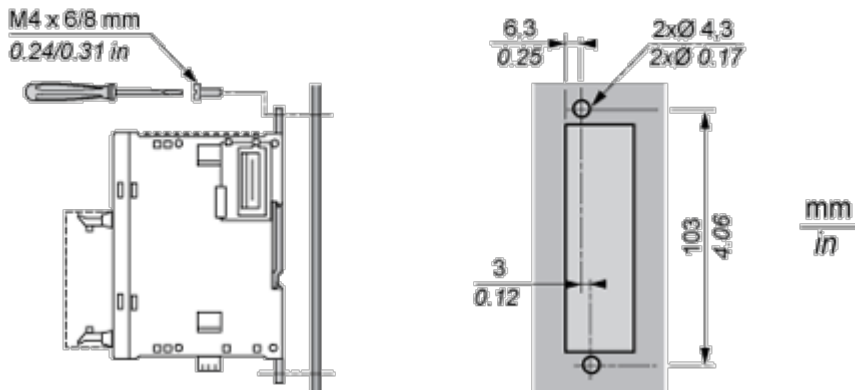


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

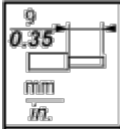
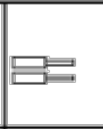
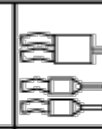
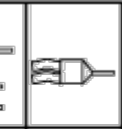
Mounting Hole Layout



Connections and Schema

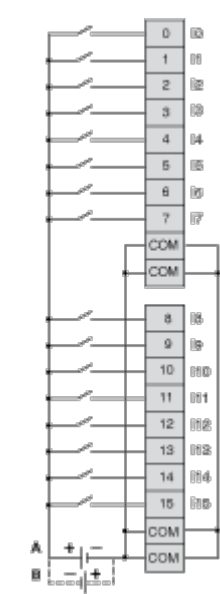
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm ²	0,14...1,5	0,25...0,5	0,25...1,5	0,14...0,5	0,14...0,75	0,25...0,34	0,5
AWG	26...16	24...20	24...16	26...20	26...18	24...22	20

Digital Input Module (16-channel, 24 Vdc)

Wiring Diagram



- A Sink wiring (positive logic)
- B Source wiring (negative logic)

The COM terminals are connected together internally.