

## Product data sheet

### Characteristics

# TM2DDI16DT

I/O expansion module, Modicon M238  
logic controller, Twido, 16 inputs 24VDC, 1  
removable screw terminal block, wear part

EAN Code: 3595863995763



### 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

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
Unit Type of Package 2	S01

Number of Units in Package 2	6
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.299 kg

### Offer Sustainability

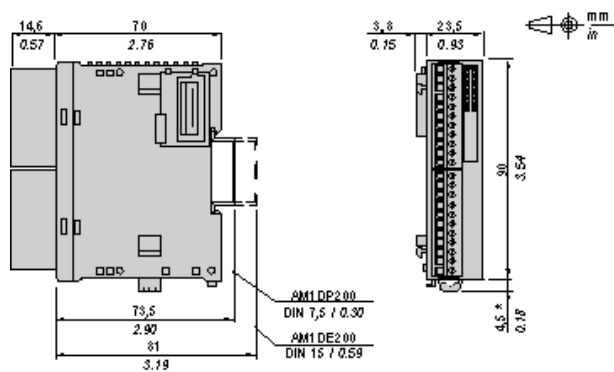
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

### Contractual warranty

Warranty	18 months
----------	-----------

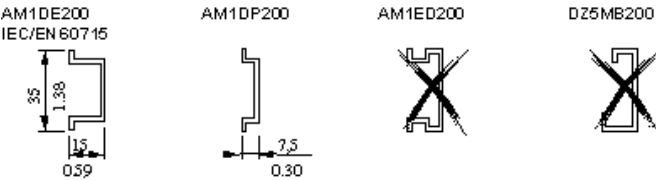
Digital Input Module (16-channel, 24 Vdc)

Dimensions



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

DIN Rail Mounting

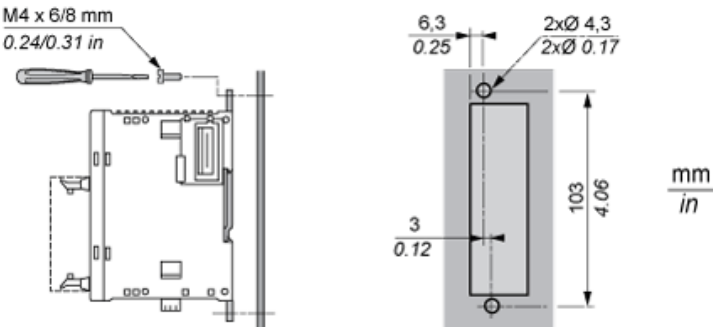


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

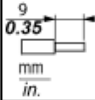
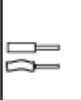
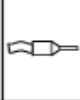
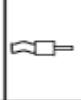
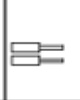
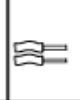
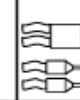

Module Mounting on a Panel Surface

Mounting Hole Layout



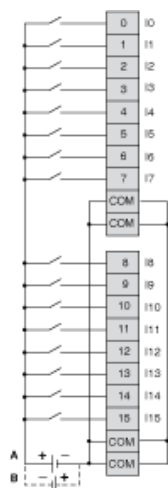
## Wiring Requirements

### Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm <sup>2</sup>	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.