

# Product data sheet

Specifications



## Discrete input module, Modicon M238 logic controller, 16 inputs 24 V DC, 1 connector HE10

TM2DDI16DK

⚠ Discontinued - Service only

⚠ Discontinued on: Dec 1, 2020

⚠ To be end-of-service on: Jun 30, 2024

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

Range Of Product	Modicon M238 logic controller
Product Or Component Type	Discrete input module
Discrete Input Number	16
Discrete Input Voltage	24 V
Discrete Input Voltage Type	DC

### Complementary

Range Compatibility	Advantys OTB Twido
Input Voltage Limits	20.4...28.8 V
Discrete Input Logic	Sink or source
Discrete Input Current	5 mA
Input Impedance	4.4 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	35 mA 5 V DC at state 1 for all input
Local Signalling	2 display blocks
Electrical Connection	1 connector HE10
Mounting Support	35 mm symmetrical DIN rail
Net Weight	0.22 lb(US) (0.1 kg)

### Environment

Depth	3.20 in (81.3 mm)
Height	3.54 in (90 mm)
Width	0.84 in (21.4 mm)

### Ordering and shipping details

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

Category	US1PC1222531
Discount Schedule	PC12
Gtin	3595863995732
Returnability	No
Country Of Origin	US

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.13 in (10.5 cm)
Package 1 Length	5.12 in (13.0 cm)
Package 1 Weight	5.93 oz (168.0 g)
Unit Type Of Package 2	S01
Number Of Units In Package 2	6
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	2.54 lb(US) (1.153 kg)

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

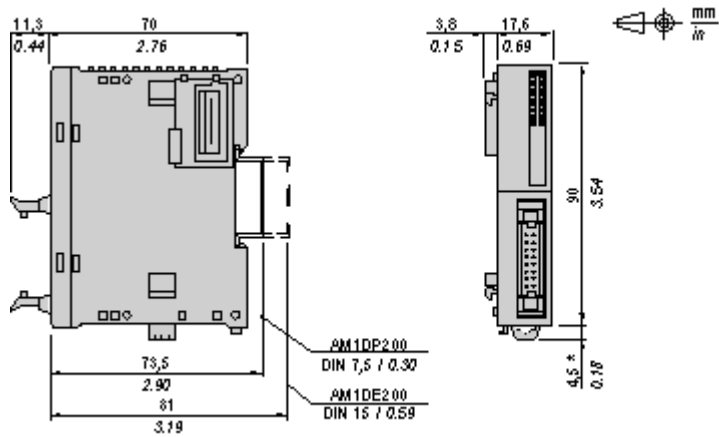
## Well-being performance

✓	Reach Free Of Svhc	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	
Reach Regulation	<a href="#">REACH Declaration</a>	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	<a href="#">China RoHS declaration</a>	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>	

Dimensions Drawings

Digital Input Module (16-channel, 24 Vdc)

Dimensions

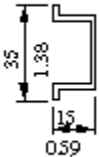


NOTE: \* 8.5 mm (0.33 in) when the clamp is pulled out.

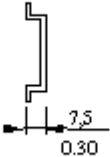
Mounting and Clearance

DIN Rail Mounting

AM1DE200  
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200

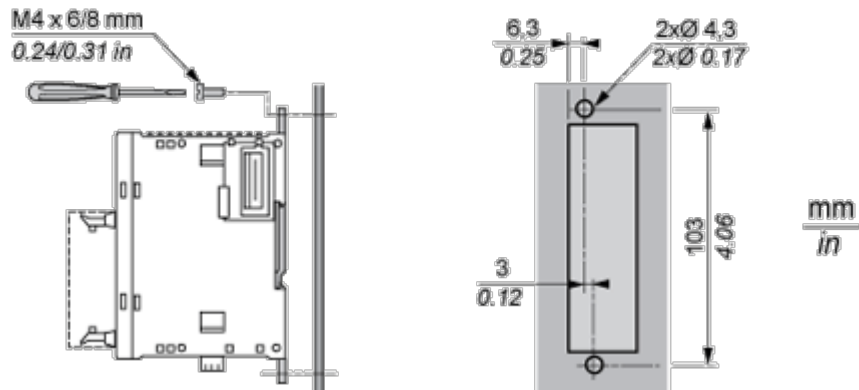


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout



Connections and Schema

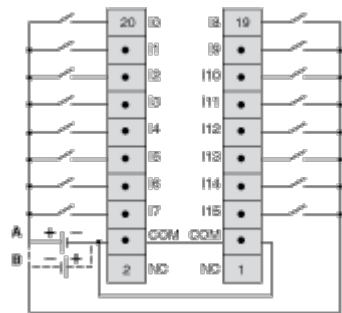
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

mm <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)