

Product data sheet

Specifications



Discrete input/output module,
Modicon M238 logic controller, 4
inputs 24VDC, 4 outputs relay, 1
terminal block

TM2DMM8DRT

! Discontinued - Service only

! Discontinued on: Jun 28, 2019

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

Main

Range Of Product	Modicon M238 logic controller
Product Or Component Type	Discrete I/O module
Discrete Input Number	4
Discrete Input Voltage	24 V
Discrete Input Voltage Type	DC
Discrete Output Number	4
Discrete Output Type	Relay

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
Discrete Output Function	1 NO
Current Per Channel	2 A
Maximum Current Per Output Common	7 A
Number Of Common Point	1 for output 1 for input
Contact Resistance	45 mOhm
Response Time	<= 10 ms from state 0 to state 1 for output <= 5 ms from state 1 to state 0 for output 4 ms at state 0 for input 4 ms at state 1 for input
Minimum Switching Current	0.1 mA at 0.1 V DC
Isolation Between Channels	None
Isolation Between Channels And Internal Logic	2300 V for 1 minute (output) 500 V for 1 minute (input)
Isolation Between Input Channel And Output Channel	1500 V for 1 minute
Isolation Between Output Channels Group	1500 V for 1 minute

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

Mechanical Durability	20000000 cycles
Electrical Durability	100000 cycles 0.5 A AC-15 240 V AC cos phi = 0.35 inductive 100000 cycles 1 A AC-15 240 V AC cos phi = 0.7 inductive 100000 cycles 1 A DC-13 24 V DC inductive (L/R = 7 ms) 100000 cycles 2 A 240 V AC resistive 100000 cycles 2 A 30 V DC resistive
Current Consumption	20 mA at 24 V DC at state 1 for all input/output 25 mA at 5 V DC at state 1 for all input/output
Local Signalling	1 display block
Electrical Connection	1 removable screw terminal block
Mounting Support	35 mm symmetrical DIN rail
Net Weight	0.095 kg

Environment

Depth	70 mm
Height	90 mm
Width	42.9 mm

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	11 cm
Package 1 Length	13 cm
Package 1 Weight	192 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	6
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.274 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-CO₂ 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 >](#)

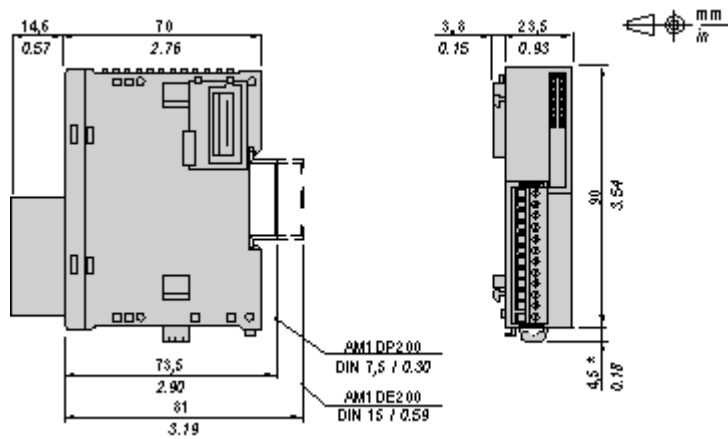
Well-being performance

	Reach Free Of Svhc	
	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	
Reach Regulation	REACH Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
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 www.P65Warnings.ca.gov	

Dimensions Drawings

Digital Mixed I/O Module (8-channel)

Dimensions

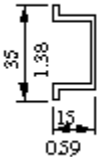


NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

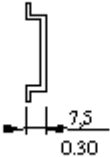
Mounting and Clearance

DIN Rail Mounting

AM1DE200
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200

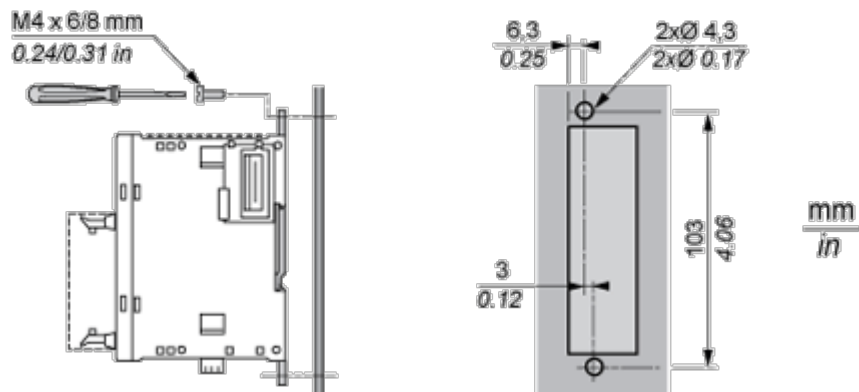


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

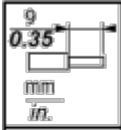


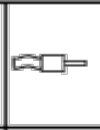
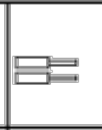
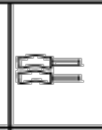
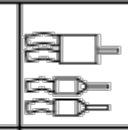

Mounting Hole Layout



Connections and Schema

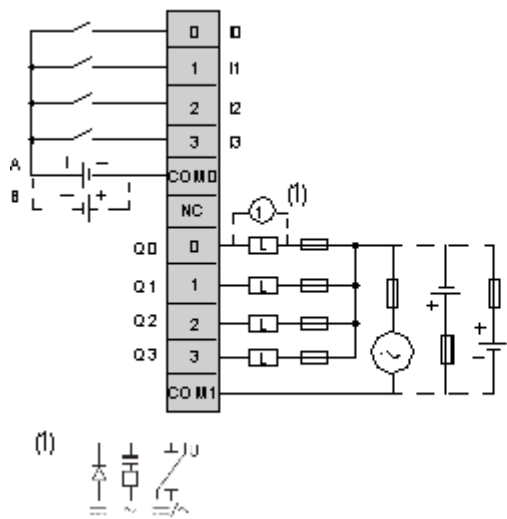
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm 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 Mixed I/O Module (8-channel)

Wiring Diagram



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

Fuse value for the load: 2 A
Fuse value for the power supply: 7 A