TM2DMM8DRT

Discrete I/O module, Modicon M238 logic controller, 4 inputs 24 V DC, 4 outputs relay, 1 terminal block

Green Premium™

Commercial status

Discontinued on: 28 June 2019

To be end-of-service on: 30 June 2024

(!) Restricted Sales for Services

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
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

Package 1 Weight	0.192 kg
Package 1 Height	75.000 mm
Package 1 width	110.000 mm
Package 1 Length	130.000 mm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
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

Contractual warranty

Warranty	18 months

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Digital Mixed I/O Module (8-channel)

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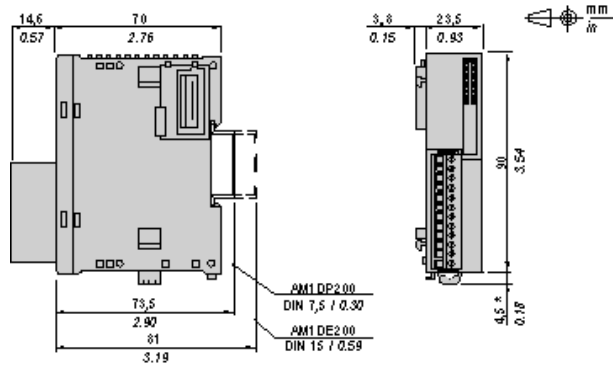
NOTE: * 8.5 mm (0.33 in) when the clamp is pulled out.

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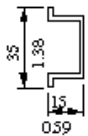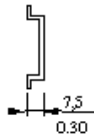
| Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200
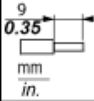
Module Mounting on a Panel Surface

Mounting Hole Layout
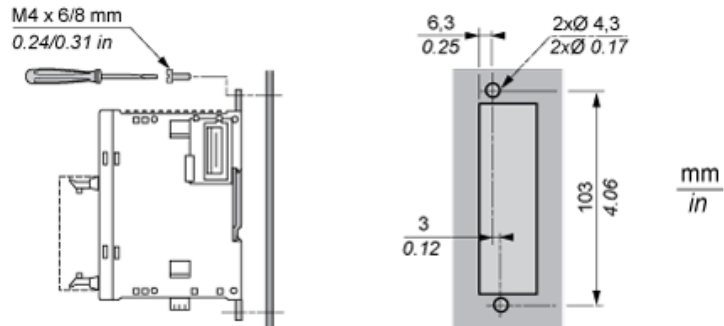
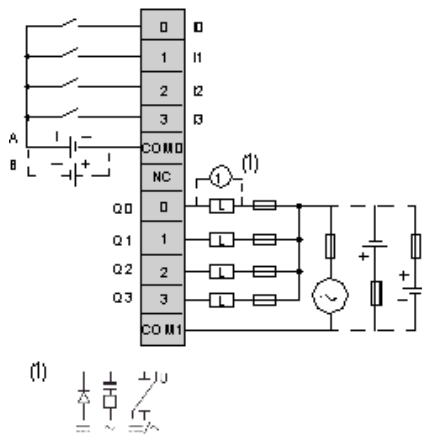## Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

mm²	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

TM2DMM8DRT is replaced by the following product range:

Modicon TM3

Expansion I/O modules for Modicon M221, M241, M251 and M262

Boost the performance of your controller with the Modicon TM3 I/O system specially designed for the Modicon M221, M241, M251 and M262 logic controllers!