

# Product datasheet

Specifications



## discrete output module M238 - 16 outputs relay- 1 removable screw terminal block

TM2DRA16RT

⚠ Discontinued on: 23 Jul 2020

⚠ End-of-service on: 30 Jun 2024

⚠ Discontinued

## Main

Range of product	Modicon M238 logic controller
Product or component type	I/O expansion module
Discrete output number	16
Discrete output type	Relay

## Complementary

Range compatibility	Twido Advantys OTB
Discrete output function	1 NO
Current per channel	2 A
Maximum current per output common	8 A
Number of common point	2
Contact resistance	45 mOhm
Response time	<= 10 ms from state 0 to state 1 for input <= 5 ms from state 1 to state 0 for input
Minimum switching current	0.1 mA at 0.1 V DC
Isolation between channels	1500 V for 1 minute
Isolation between channels and internal logic	2300 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	30 mA at 5 V DC at state 1 for all output 40 mA at 24 V DC at state 1 for all output
Local signalling	1 display block
Electrical connection	1 removable screw terminal block
Mounting support	35 mm symmetrical DIN rail
Net weight	0.145 kg

## Environment

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<b>Depth</b>	84.6 mm
<b>Height</b>	90 mm
<b>Width</b>	27.3 mm

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.461 cm
<b>Package 1 Width</b>	10.469 cm
<b>Package 1 Length</b>	12.445 cm
<b>Package 1 Weight</b>	238.4 g

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## Contractual warranty

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<b>Warranty (in months)</b>	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

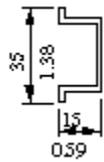


Mounting and Clearance

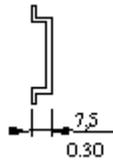
DIN Rail Mounting

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AM1DE200  
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200



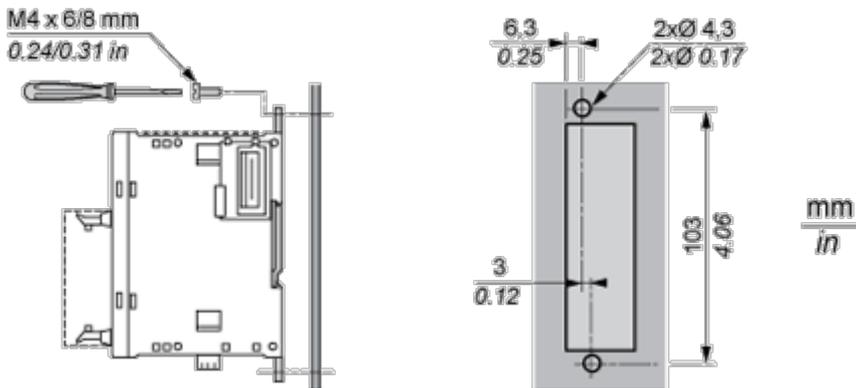
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

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Mounting Hole Layout

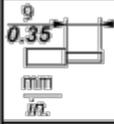
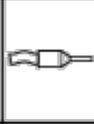
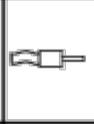
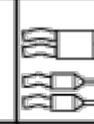
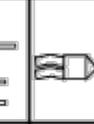


Connections and Schema

Wiring Requirements

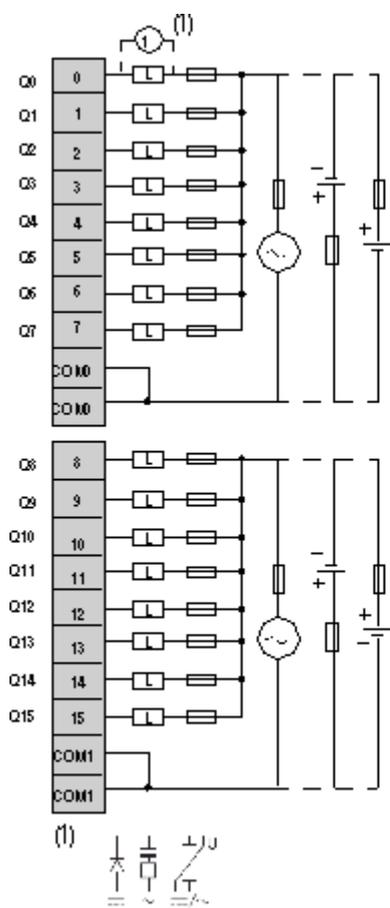
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Cable Types and Wire Sizes for Removable Screw Terminal Block

							
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 Relay Output Module (16-contact)

Wiring Diagram



L Load