

# TM2DDI8DT

discrete input module M238 - 8 inputs 24 V DC  
- 1 removable screw terminal block



## Main

|                             |                               |
|-----------------------------|-------------------------------|
| Range of product            | Modicon M238 logic controller |
| Product or component type   | Discrete input module         |
| Discrete input number       | 8                             |
| Discrete input voltage      | 24 V                          |
| Discrete input voltage type | DC                            |

## Complementary

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| Range compatibility                           | Advantys OTB<br>Twido                 |
| 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 1<br>4 ms at state 0    |
| Isolation between channels                    | None                                  |
| Isolation between channels and internal logic | 500 V for 1 minute                    |
| Current consumption                           | 25 mA 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            |
| Product weight                                | 0.1 kg                                |

## Environment

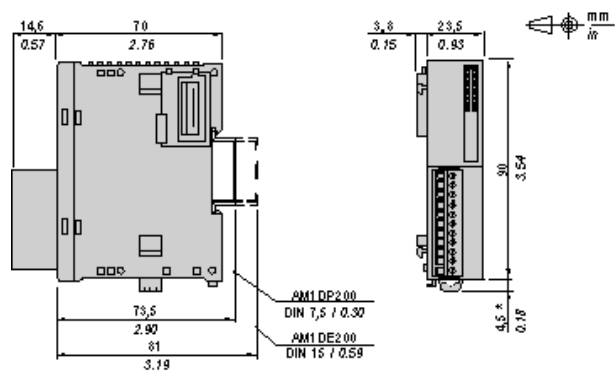
|        |         |
|--------|---------|
| Depth  | 84.6 mm |
| Height | 90 mm   |
| Width  | 23.5 mm |

## Offer Sustainability

|                               |                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status      | Not Green Premium product                                                                                                                    |
| Product environmental profile | Available  <a href="#">Download Product Environmental</a> |

Digital Input Module (8-channel, 24 Vdc)

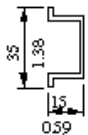
Dimensions



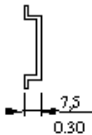
NOTE: \* 8.5 mm (0.33 in) when the clamp is pulled out.

DIN Rail Mounting

AM1DE200  
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200



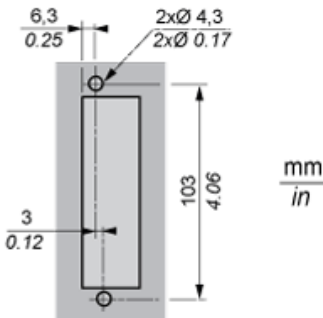
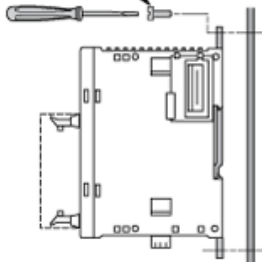
| Rail depth        | Catalogue part number |
|-------------------|-----------------------|
| 15 mm (0.59 in.)  | AM1DE200              |
| 7,5 mm (0.30 in.) | AM1DP200              |

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout

M4 x 6/8 mm  
0.24/0.31 in



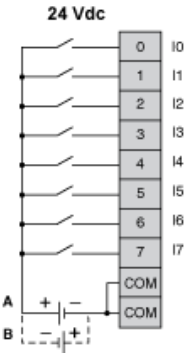
Wiring Requirements

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 (8-channel, 24 Vdc)

Wiring Diagram



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

The COM terminals are connected together internally.