# Product data sheet

Specifications

## Discrete output module, Modicon M238 logic controller, 32 outputs 24V transistor, 1 connector HE10

TM2DDO32TK

Discontinued - Service only

Discontinued on: Dec 1, 2020

End-of-service on: Jun 30, 2024

## Main

| | |
|---|---|
| **Range of Product** | Modicon M238 logic controller |
| **Product or Component Type** | Discrete output module |
| **Discrete output number** | 32 |
| **Discrete output type** | Transistor |
| **Discrete output voltage** | 24 V |
| **Discrete output logic** | Source |
| **Discrete output current** | 0.4 A |

## Complementary

| | |
|---|---|
| **Range Compatibility** | Advantys OTB<br>Twido |
| **Output voltage limits** | 20.4...28.8 V |
| **Current per channel** | 0.48 A |
| **Maximum current per output common** | 2 A |
| **Number of common point** | 2 |
| **Response time** | 450 µs from state 0 to state 1<br>450 µs from state 1 to state 0 |
| **[Ures] residual voltage** | 0.4 V at state 1 |
| **Maximum leakage current** | 0.1 mA |
| **Maximum inductive load** | 10 mH |
| **Maximum tungsten load** | 9.6 W |
| **Short-circuit protection** | With automatic reactivaton |
| **Overload protection** | With automatic reactivaton |
| **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 output<br>40 mA 24 V DC at state 1 for all output |
| **Local signalling** | 2 display blocks |
| **Electrical connection** | 1 connector HE10 |
| **Mounting Support** | 35 mm symmetrical DIN rail |
| **Net Weight** | 0.231 lb(US) (0.105 kg) |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

## Environment

| | |
|---|---|
| **Depth** | 3.2 in (81.3 mm) |
| **Height** | 3.5 in (90 mm) |
| **Width** | 1.3 in (33.5 mm) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | 22531-PLCS, TWIDO, TWD |
| **Discount Schedule** | PC12 |
| **GTIN** | 3595863995923 |
| **Returnability** | No |
| **Country of origin** | JP |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 2.8 in (7.0 cm) |
| **Package 1 Width** | 3.9 in (10.0 cm) |
| **Package 1 Length** | 4.9 in (12.5 cm) |
| **Package weight(Lbs)** | 7.4 oz (210.0 g) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 |
| 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 |
| PVC free | Yes |

### Use Longer

#### Lifetime extension

| | |
|---|---|
| Repair | No |

### Use Again

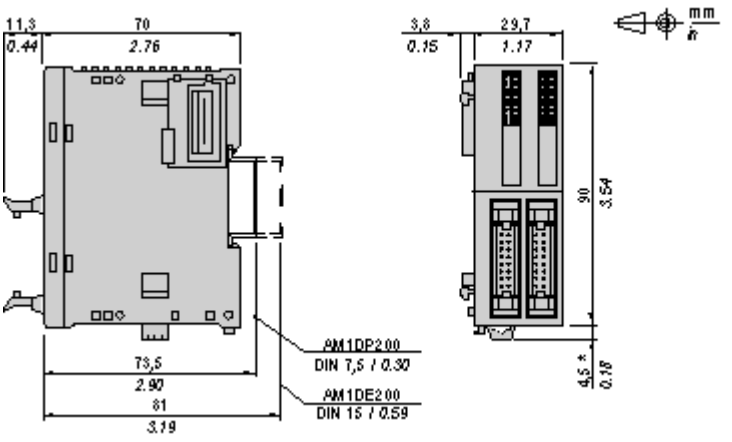
#### Repack and remanufacture

| | |
|---|---|
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions Drawings

**Digital Transistor Output Module (32-channel, Source)**

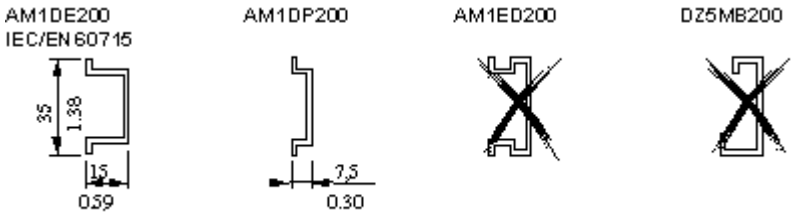
**Dimensions**




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

Mounting and Clearance

## DIN Rail Mounting

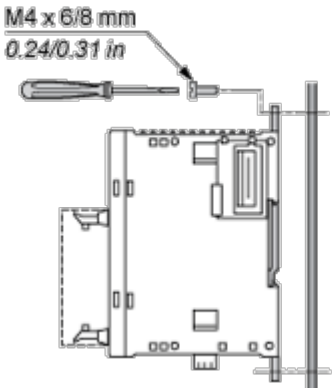


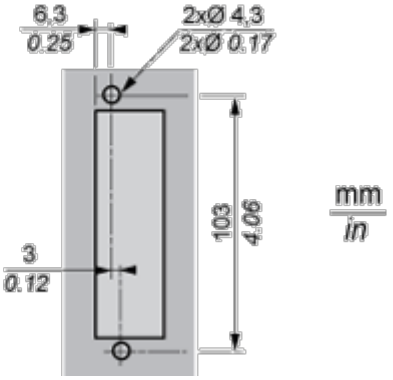

| Rail depth | Catalogue part number |
|---|---|
| 15 mm (0.59 in.) | AM1DE200 |
| 7,5 mm (0.30 in.) | AM1DP200 |

NOTE: Do not use AM1ED200 and DZ5MB200

## Module Mounting on a Panel Surface

### Mounting Hole Layout

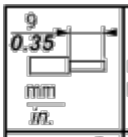


Connections and Schema

## Wiring Requirements

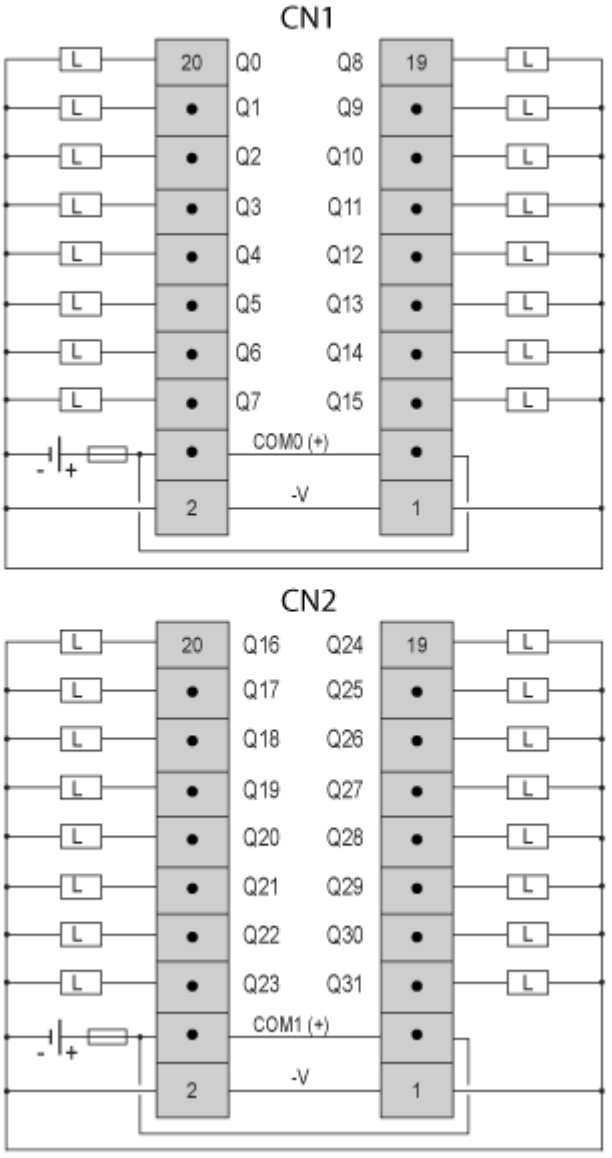
### Cable Types and Wire Sizes for Removable Screw Terminal Block




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| $mm^2$ | 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 Transistor Output Module (32-channel, Source)

### Wiring Diagram




L Load

Fuse value for the load: 0.4 A
Fuse value for the power supply: 2 A