

# Product data sheet

Specifications



## Discrete output module, Modicon TM5, digital 2O, 30 V DC/230 V AC, 5 A, relay, 2 C/O

TM5SDO2R

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

|                           |                        |
|---------------------------|------------------------|
| Range of Product          | Modicon TM5            |
| Product or Component Type | Discrete output module |
| Discrete output number    | 2                      |
| Discrete output type      | Relay                  |

### Complementary

|                                   |   |
|-----------------------------------|---|
| Range Compatibility               | PacDrive LMC motion controller<br>Modicon LMC058<br>Modicon M258                                    |
| Product Compatibility             | Logic controller<br>PacDrive LMC Pro<br>Motion controller<br>PacDrive LMC Pro 2<br>PacDrive LMC Eco |
| Output voltage                    | 230 V AC<br>30 V DC   |
| Output voltage limits             | 184...276 V AC<br>24...36 V DC  |
| Discrete output function          | 2 C/O   |
| Current per channel               | 5 A   |
| Maximum current per output common | 10 A  |
| Color                             | Black   |
| Response time                     | <= 10 ms from state 0 to state 1 output<br><= 10 ms from state 1 to state 0 output                  |
| Protection Type                   | Reverse polarity protection<br>Without overload protection<br>Without short-circuit protection      |
| Isolation                         | No insulation between channels<br>500 Vrms AC insulation between channel and bus                    |
| Current consumption               | 90 mA 5 V DC bus  |
| Maximum power dissipation in W    | 2.45 W  |
| Marking                           | CE  |
| Net Weight                        | 0.055 lb(US) (0.025 kg)   |

### Environment

|           |   |
|-----------|---|
| Standards | IEC 61131-2<br>UL 508<br>CSA C22.2 No 213<br>CSA C22.2 No 142 |
|-----------|---|

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

|  |   |
|--|---|
| <b>Product Certifications</b>                | GOST-R<br>CSA<br>C-tick<br>cULus  |
| <b>Ambient air temperature for operation</b> | 14...131 °F (-10...55 °C) without derating horizontal installation)<br>14...140 °F (-10...60 °C) with derating factor horizontal installation)<br>14...122 °F (-10...50 °C) vertical installation)  |
| <b>Ambient Air Temperature for Storage</b>   | -40...158 °F (-40...70 °C)  |
| <b>Relative Humidity</b>                     | 5...95 % without condensation   |
| <b>IP degree of protection</b>               | IP20IEC 61131-2   |
| <b>Pollution degree</b>                      | 2 IEC 60664   |
| <b>Operating altitude</b>                    | 0...6561.68 ft (0...2000 m)   |
| <b>Storage altitude</b>                      | 0...9842.5 ft (0...3000 m)  |
| <b>Vibration resistance</b>                  | 1 gn 8.4...150 Hz DIN rail<br>3.5 mm 5...8.4 Hz DIN rail  |
| <b>Shock resistance</b>                      | 15 gn 11 ms   |
| <b>Electromagnetic compatibility</b>         | Electrostatic discharge immunity test, 4 kV on contact IEC 61000-4-2<br>Electrostatic discharge immunity test, 8 kV in air IEC 61000-4-2<br>Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz IEC 61000-4-3<br>Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz IEC 61000-4-3<br>Electrical fast transient/burst immunity test, 1 kV I/O IEC 61000-4-4<br>Electrical fast transient/burst immunity test, 1 kV shielded cable IEC 61000-4-4<br>Electrical fast transient/burst immunity test, 2 kV power lines IEC 61000-4-4<br>1.2/50 µs shock waves immunity test, 0.5 kV differential mode IEC 61000-4-5<br>1.2/50 µs shock waves immunity test, 1 kV common mode IEC 61000-4-5<br>Conducted RF disturbances IEC 61000-4-6<br>Conducted and radiated emissions CISPR 11 |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US1PC1222532  |
| <b>Discount Schedule</b> | PC12          |
| <b>GTIN</b>              | 3595864074689 |
| <b>Returnability</b>     | No            |
| <b>Country of origin</b> | AT            |

## Packing Units

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Unit Type of Package 1</b>       | PCE                      |
| <b>Nbr. of units in pkg.</b>        | 1                        |
| <b>Package 1 Height</b>             | 0.787 in (2.000 cm)      |
| <b>Package 1 Width</b>              | 2.362 in (6.000 cm)      |
| <b>Package 1 Length</b>             | 4.173 in (10.600 cm)     |
| <b>Package weight(Lbs)</b>          | 1.552 oz (44.000 g)      |
| <b>Unit Type of Package 2</b>       | S02                      |
| <b>Number of Units in Package 2</b> | 97                       |
| <b>Package 2 Height</b>             | 5.906 in (15.000 cm)     |
| <b>Package 2 Width</b>              | 11.811 in (30.000 cm)    |
| <b>Package 2 Length</b>             | 15.748 in (40.000 cm)    |
| <b>Package 2 Weight</b>             | 10.318 lb(US) (4.680 kg) |

# Contractual warranty

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Warranty

18 months



## 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 >](#)

### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

No

Packaging without single use plastic

Yes

[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](http://www.P65Warnings.ca.gov)

PVC free

Yes

## Use Again

### Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

Take-back

No

WEEE Label

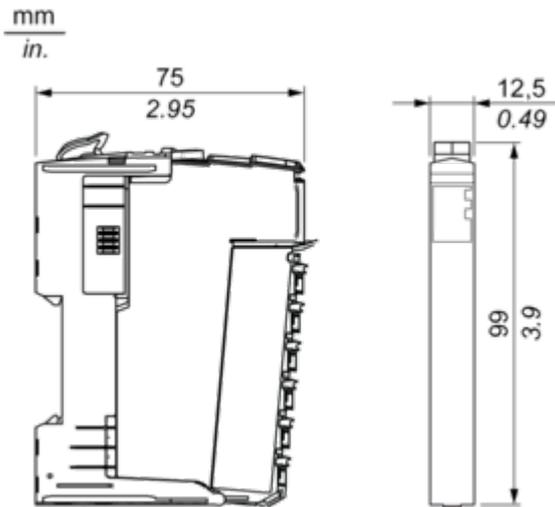
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

TM5 Slice

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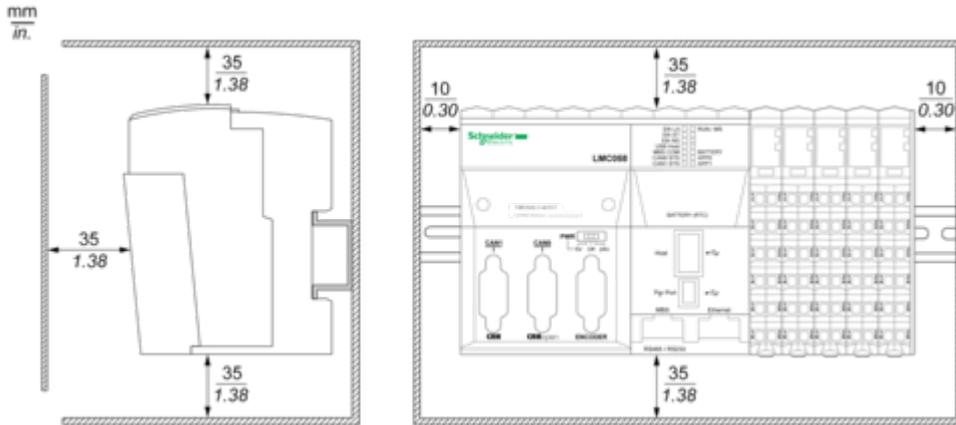
Dimensions



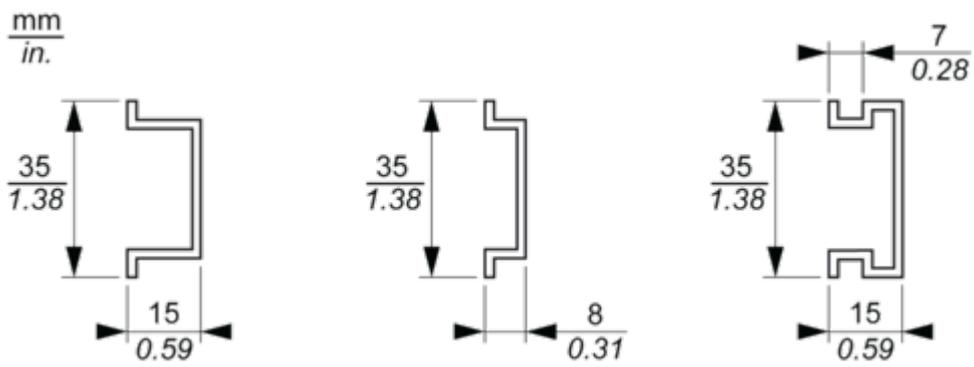
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail

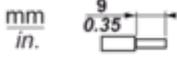


Connections and Schema

**TM5 System Wiring Recommendations**

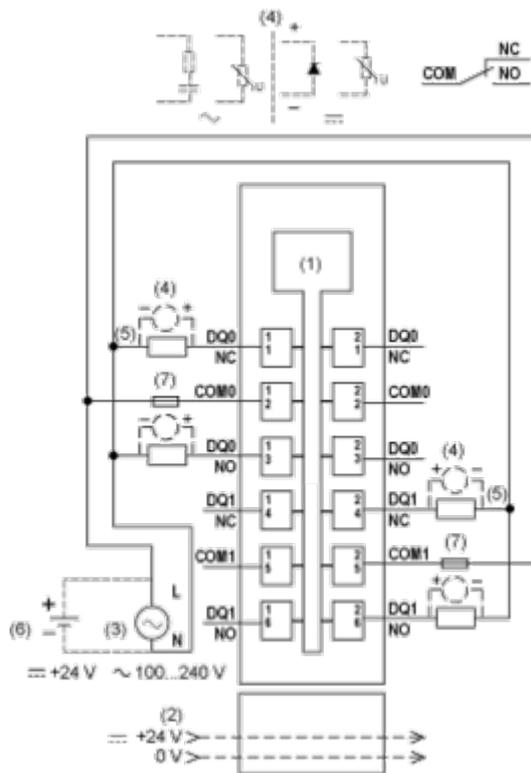
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**Wire Sizes to Use with the Removable Spring Terminal Blocks**

| <br>mm<br>in. |  |  |  |  |
|--|---|---|---|---|
| mm <sup>2</sup>  | 0,08...2,5  | 0,25...2,5  | 0,25...1,5  | 2 x 0,25...2 x 0,75   |
| AWG  | 28...14   | 24...14   | 24...16   | 2 x 24...2 x 18   |

Electronic Module 2DO 30 Vdc/230 Vac 5 A Relay C/O

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) External power supply 100...240 Vac
- (4) Inductive load protection
- (5) 2-wire load
- (6) External power supply 24 Vdc
- (7) External fuse type T slow-blow 5 A - 250 V