

# Product data sheet

Specifications



discrete output module, Modicon  
TM5, 4 DO, 30V DC, 230V AC, 5A,  
relay, 4 changeover

TM5SDO4R

## Main

Range of product	Modicon TM5
Product or component type	Discrete output module
Discrete output number	4
Discrete output type	Relay

## Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Pro 2 PacDrive LMC Eco PacDrive LMC Pro
Output voltage	230 V AC 30 V DC
Output voltage limits	184...276 V AC 24...36 V DC
Discrete output function	4 NO
Current per channel	5 A
Maximum current per output common	10 A
Colour	Black
Response time	<= 10 ms from state 0 to state 1 for output <= 10 ms from state 1 to state 0 for output
Protection type	Reverse polarity protection Without short-circuit protection Without overload protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Mechanical durability	20000000 cycles
Electrical durability	500000 cycles at 5 A
Current consumption	160 mA at 5 V DC bus
Maximum power dissipation in W	2.3 W
Marking	CE
Net weight	0.025 kg

## Environment

Standards	CSA C22.2 No 213 UL 508 IEC 61131-2 CSA C22.2 No 142
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<b>Product certifications</b>	CSA cULus GOST-R C-Tick
<b>Ambient air temperature for operation</b>	-10...55 °C without derating (horizontal installation) -10...60 °C with derating factor (horizontal installation) -10...50 °C (vertical installation)
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Relative humidity</b>	5...95 % without condensation
<b>IP degree of protection</b>	IP20 conforming to IEC 61131-2
<b>Pollution degree</b>	2 conforming to IEC 60664
<b>Operating altitude</b>	0...2000 m
<b>Storage altitude</b>	0...3000 m
<b>Vibration resistance</b>	1 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on DIN rail
<b>Shock resistance</b>	15 gn for 11 ms
<b>Electromagnetic compatibility</b>	Electrostatic discharge immunity test, 4 kV on contact conforming to IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.000 cm
<b>Package 1 Width</b>	6.000 cm
<b>Package 1 Length</b>	10.500 cm
<b>Package 1 Weight</b>	45.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	97
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	4.768 kg

## Contractual warranty

<b>Warranty</b>	18 months
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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 >](#)

### 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

End of life manual availability

[End of Life Information](#)

Take-back

No

WEEE Label

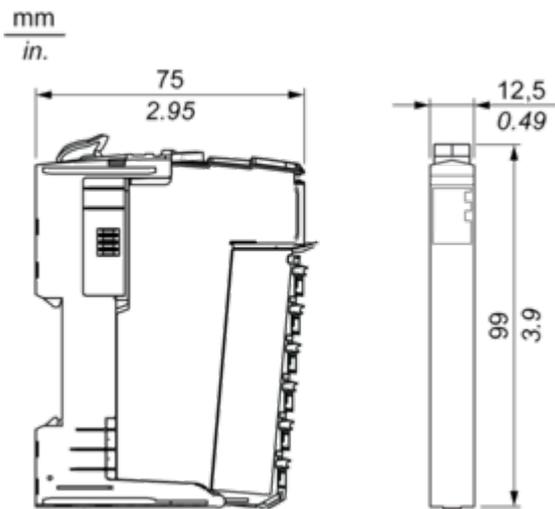
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

TM5 Slice

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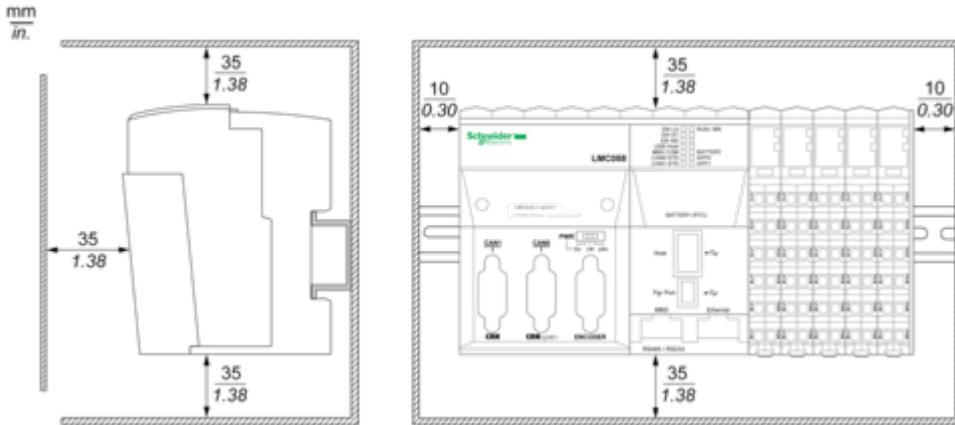
Dimensions



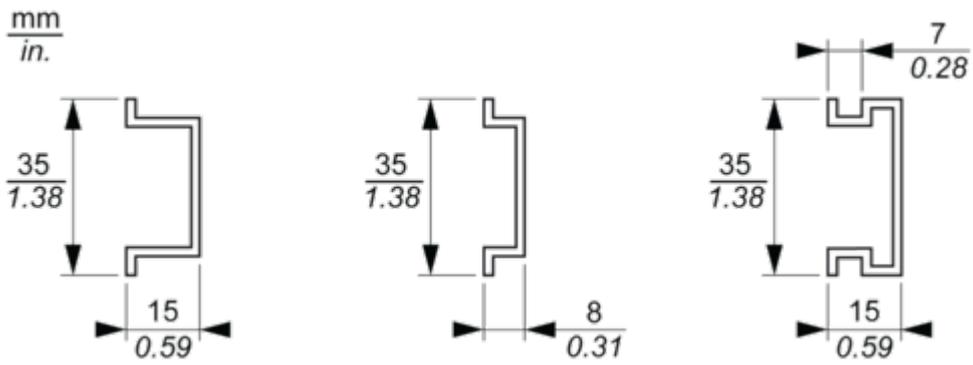
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail

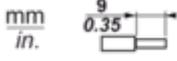


Connections and Schema

**TM5 System Wiring Recommendations**

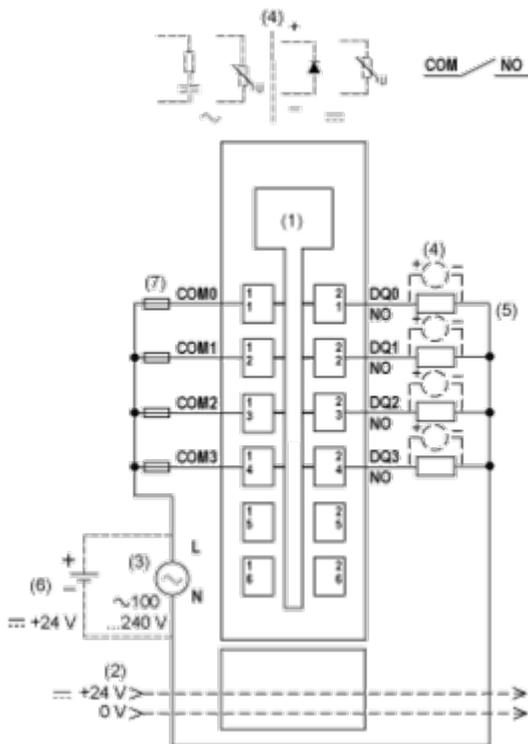
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**Wire Sizes to Use with the Removable Spring Terminal Blocks**

 mm 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 4DO 30 Vdc / 230 Vac 5 A Relay N/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