

Product data sheet

Specifications



discrete output module, Modicon TM5, 16 DO, 24V DC, 0.5 A, 1 wire

TM5SDO16T

Main

Range Of Product	Modicon TM5
Product Or Component Type	Discrete output module
Discrete Output Number	16
Discrete Output Type	Transistor

Complementary

Range Compatibility	Modicon LMC058 PacDrive LMC motion controller Modicon M258
Product Compatibility	PacDrive LMC Pro Motion controller PacDrive LMC Pro 2 PacDrive LMC Eco Logic controller
Output Voltage	24 V DC
Output Voltage Limits	20.4...28.8 V
Discrete Output Logic	Source
Current Per Channel	0.5 A
Maximum Current Per Output Common	8 A
Colour	White
Peak Output Current	3 A
Switching Frequency	<= 500 Hz resistive
Response Time	<= 300 µs from state 0 to state 1 output <= 300 µs from state 1 to state 0 output
Maximum Leakage Current	5 µA when switched off
Protection Type	Reverse polarity protection Overload protection Short-circuit protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Maximum Voltage Drop	<2 V at 500 mA sensor supply <0.1 V at 500 mA output
Maximum Supply Current For Sensors	500 mA
Current Consumption	56 mA 5 V DC bus 40 mA 24 V DC input/output
Local Signalling	1 LED green/red power supply 16 LEDs yellow output status

Electrical Connection	1 wire
Marking	CE
Net Weight	0.06 lb(US) (0.025 kg)

Environment

Standards	IEC 61131-2 UL 508 CSA C22.2 No 213 CSA C22.2 No 142
Product Certifications	CSA cULus C-Tick GOST-R
Ambient Air Temperature For Operation	14...131 °F (-10...55 °C) without derating horizontal installation) 14...140 °F (-10...60 °C) with derating factor horizontal installation) 14...122 °F (-10...50 °C) vertical installation)
Ambient Air Temperature For Storage	-40...158 °F (-40...70 °C)
Relative Humidity	5...95 % without condensation
Ip Degree Of Protection	IP20IEC 61131-2
Pollution Degree	2 IEC 60664
Operating Altitude	0...2000 m
Storage Altitude	0.00...9842.52 ft (0...3000 m)
Vibration Resistance	1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz DIN rail
Shock Resistance	15 gn 11 ms
Electromagnetic Compatibility	Electrostatic discharge immunity test, 4 kV on contact IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode IEC 61000-4-5 Conducted RF disturbances IEC 61000-4-6 Conducted and radiated emissions CISPR 11

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.79 in (2.000 cm)
Package 1 Width	2.36 in (6.000 cm)
Package 1 Length	4.17 in (10.600 cm)
Package 1 Weight	1.41 oz (40.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	97
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.30 lb(US) (4.218 kg)

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Weee

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

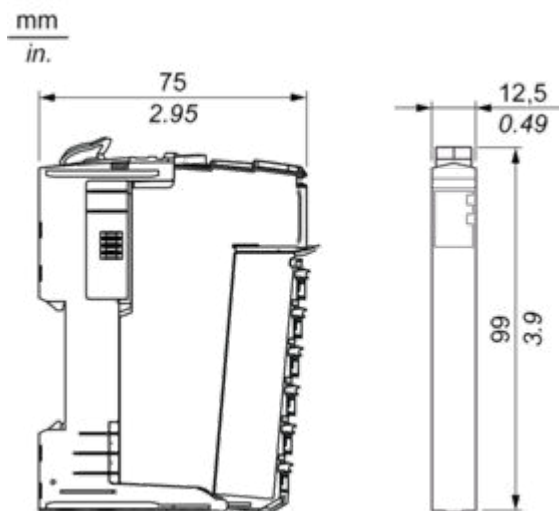
Circularity Profile

[End of Life Information](#)

Dimensions Drawings

TM5 Slice

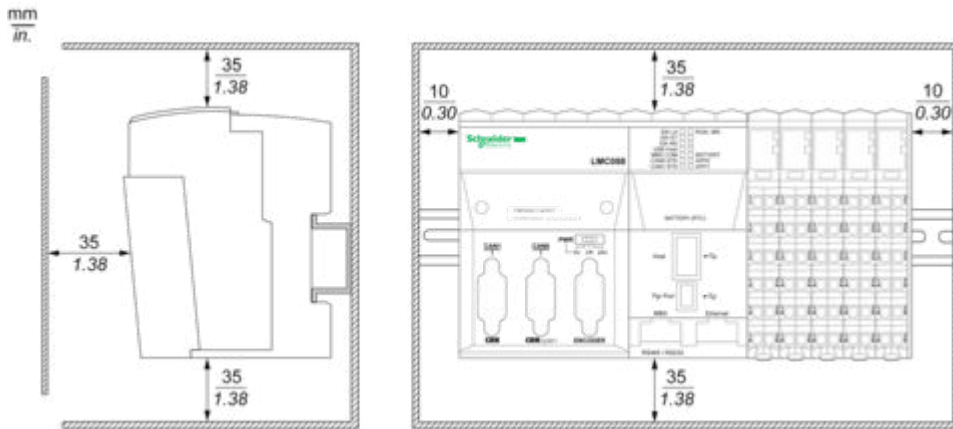
Dimensions



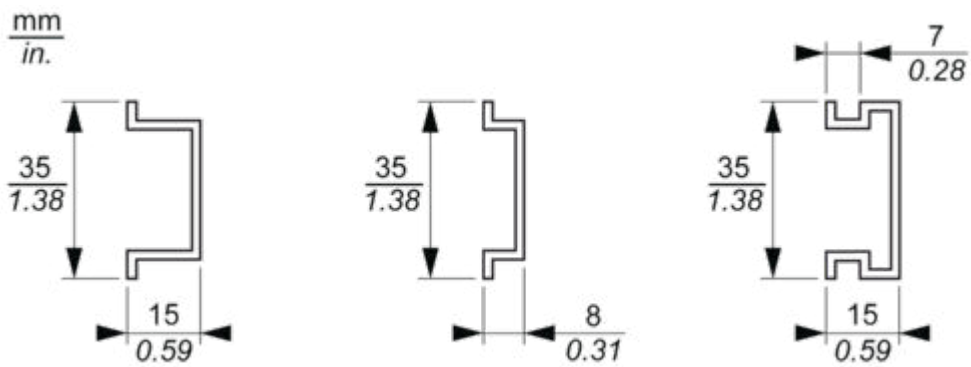
Mounting and Clearance

TM5 System

Spacing Requirements



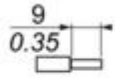



Mounting on a DIN Rail



Connections and Schema

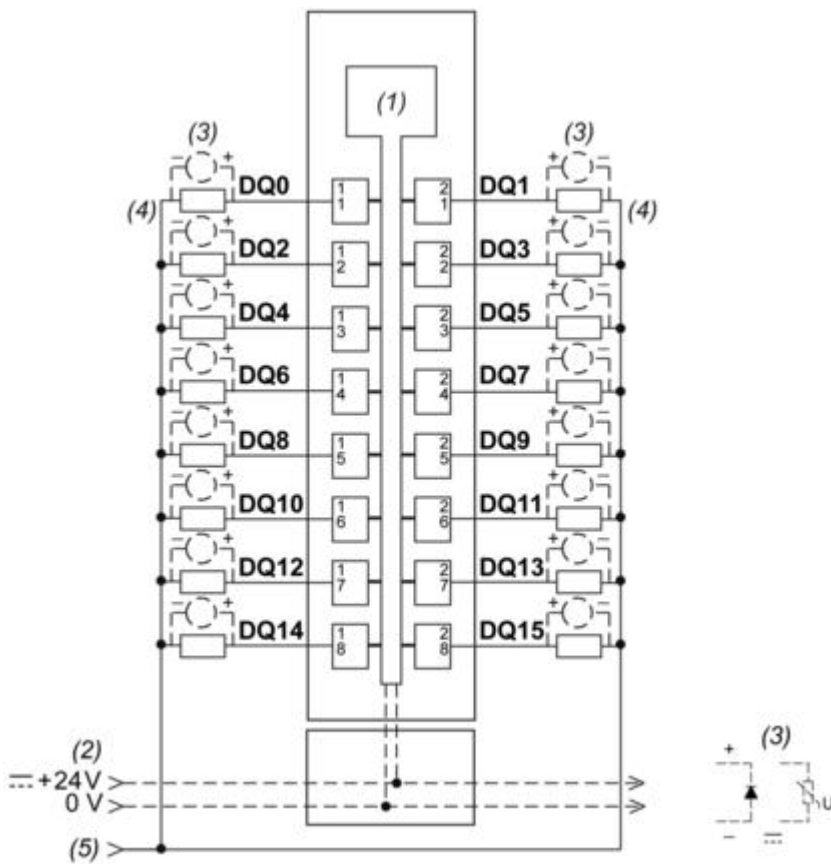
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

$\frac{\text{mm}}{\text{in.}}$ 			
mm ²	0,08...1,5	0,25...1,5	0,25...0,75
AWG	28...16	24...16	24...20

Electronic Module 16DO 24 Vdc Tr 0.5 A 1 Wire

Wiring Diagrams



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) Inductive load protection
- (4) 2-wire load
- (5) 0 Vdc I/O power by external connection