



Main

Range of product	Modicon TM5
Product or component type	Discrete output module
Discrete output number	8
Discrete output type	Transistor

Complementary

Range compatibility	Modicon LMC058 Modicon M258
Product compatibility	Motion controller Logic controller
Output voltage	24 V DC
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Current per channel	2 A
Current per output common	<= 8 A
Colour	White
Peak output current	<= 12 A
Switching frequency	<= 500 Hz resistive load
Response time	<= 300 µs from state 1 to state 0 for output <= 300 µs from state 0 to state 1 for output
Leakage current	5 µA when switched off
Short-circuit protection	With
Overload protection	With
Reverse polarity protection	With
Current consumption	44 mA 5 V DC bus 0 mA 24 V DC input/output
Power dissipation in W	<= 1.5 W
Local signalling	8 LEDs yellow for output status 1 LED red for power supply 1 LED green for power supply
Electrical connection	1 wire
Marking	CE
Product weight	0.025 kg

Environment

Standards	CSA 22-2 No 142 IEC 61131-2 UL 508 CSA 22-2 No 213
Product certifications	CSA C-Tick CULus GOST-R
Ambient air temperature for operation	0...60 °C with derating factor horizontal installation 0...55 °C without derating factor horizontal installation 0...50 °C vertical installation
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...2000 m
Storage altitude	0...3000 m
Vibration resistance	3.5 mm 5...8.4 Hz DIN rail 1 gn 8.4...150 Hz DIN rail
Shock resistance	15 gn for 11 ms
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3
Resistance to fast transients	2 kV power lines conforming to EN/IEC 61000-4-4 1 kV shielded cable conforming to EN/IEC 61000-4-4 1 kV I/O conforming to EN/IEC 61000-4-4
Surge withstand	1 kV common mode conforming to EN/IEC 61000-4-5 0.5 kV differential mode conforming to EN/IEC 61000-4-5
Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR11

Not classified

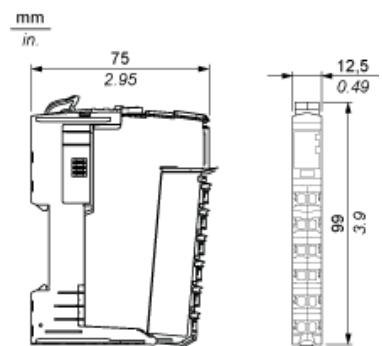
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
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Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 1039 - Schneider Electric declaration of conformity download

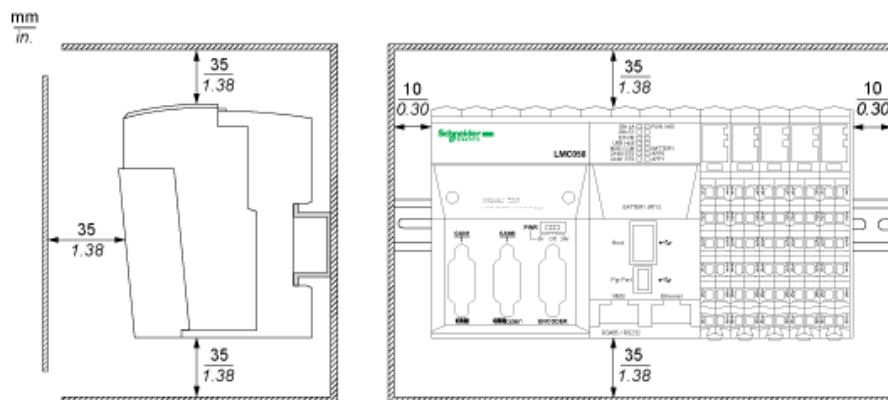
TM5 Slice

Dimensions

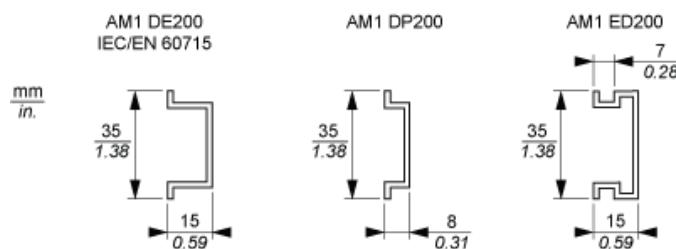


TM5 System

Spacing Requirements



Mounting on a DIN Rail



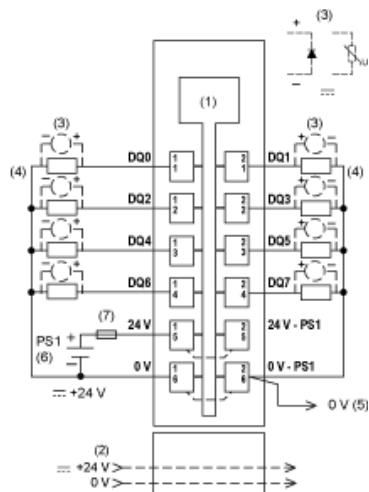
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0,35	—	—	—
mm ²	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 8DO 24 Vdc Tr 2 A 1 Wire

Wiring Diagram



- (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 segment by external connection
- (6) PS1: External isolated SELV power supply 24 Vdc limited to 200 VA for UL 508 conformance, or limited to 150 VA for CSA 22.2, N° 142 conformance
- (7) External fuse, Type T slow-blow 8 A max., 250 V