



### Main

Range of product	Modicon TM5
Product or component type	Analog output module
Analogue output number	2
Analogue output resolution	12 bits 0...20 mA 12 bits + sign +/- 10 V

### Complementary

Range compatibility	Modicon LMC058 Modicon M258
Product compatibility	Motion controller Logic controller
Analogue output type	Current 0...20 mA Voltage +/- 10 V
Measurement resolution	4.882 mV, +/- 10 V 9.766 µA, 0...20 mA
Colour	White
Response time	<= 1 ms
Output impedance	>= 1 Ohm
Load impedance ohmic	<= 500 Ohm (current)
Sampling duration	200 µs
Measurement error	< 0.15 % of full scale, +/- 10 V at 25 °C < 0.15 % of full scale, 0...20 mA at 25 °C
Temperature coefficient	0.02 %FS/°C, analogue output type: current 0.02 %FS/°C, analogue output type: voltage
Non-linearity	< 0.007 %FS, analogue output type: current < 0.007 %FS, analogue output type: voltage
Type of cable	Shielded cable
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Supply	Internal
[Us] rated supply voltage	24 V DC -15...20 %
Local signalling	1 LED green for power supply 1 LED red for power supply 2 LEDs yellow for output status
Current consumption	2 mA 5 V DC bus 46 mA 24 V DC input/output
Power dissipation in W	<= 1.11 W
Marking	CE
Product weight	0.025 kg

### Environment

standards	CSA C22.2 No 142 IEC 61131-2 UL 508 CSA C22.2 No 213
product certifications	CSA

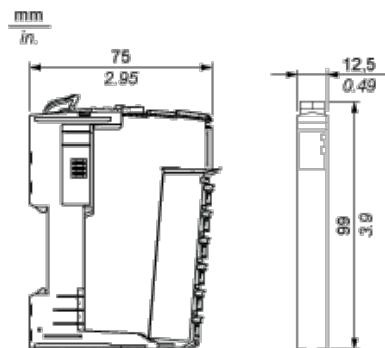
ambient air temperature for operation	0...50 °C (vertical installation) 0...55 °C without derating factor (horizontal installation) 0...60 °C with derating factor (horizontal installation)
ambient air temperature for storage	-25...70 °C
relative humidity	5...95 % without condensation
IP degree of protection	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	1 gn (f= 8.4...150 Hz) DIN rail 3.5 mm (f= 5...8.4 Hz) DIN rail
shock resistance	15 gn for 11 ms
resistance to electrostatic discharge	4 kV on contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2
resistance to electromagnetic fields	1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3
resistance to fast transients	1 kV I/O conforming to EN/IEC 61000-4-4 1 kV shielded cable conforming to EN/IEC 61000-4-4 2 kV power lines conforming to EN/IEC 61000-4-4
surge withstand	0.5 kV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5
electromagnetic compatibility	EN/IEC 61000-4-6
disturbance radiated/conducted	CISPR 11

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

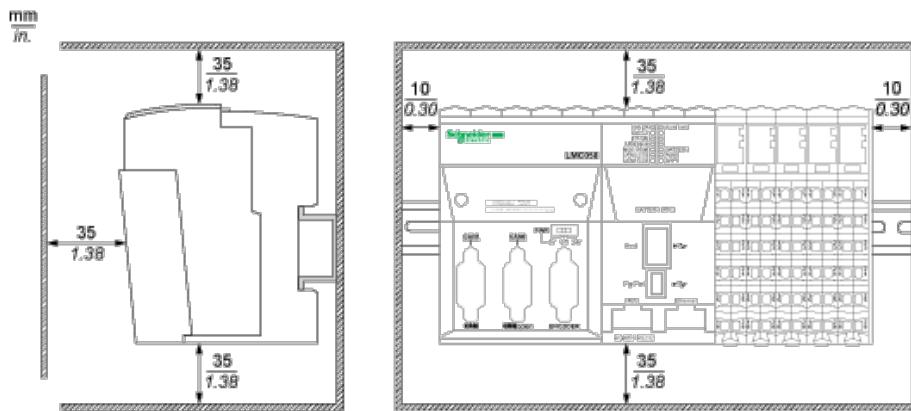
## TM5 Slice

### Dimensions

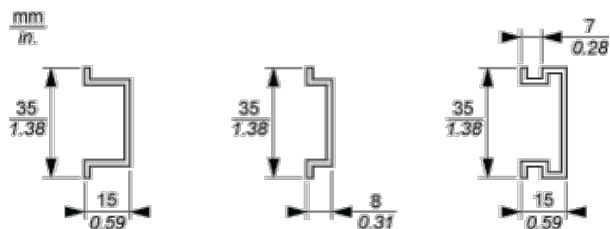


## TM5 System

### Spacing Requirements



### Mounting on a DIN Rail



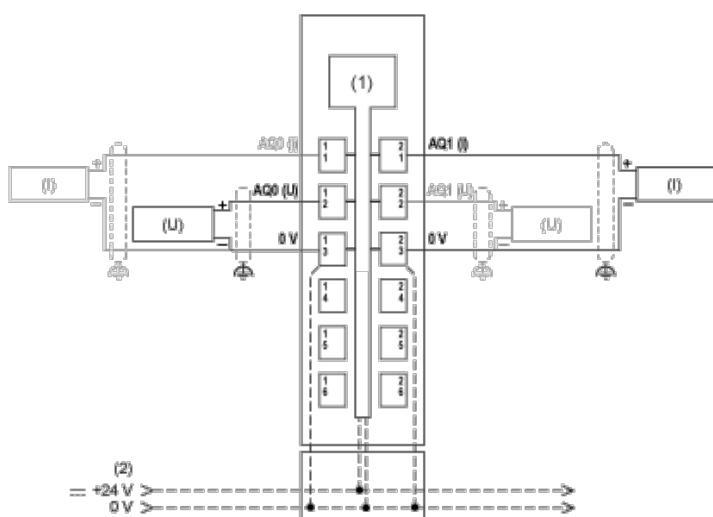
## TM5 System Wiring Recommendations

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

mm in.	0.35 mm² 0.015 in²	0.25 mm² 0.010 in²	0.25 mm² 0.010 in²	2 x 0.25...2 x 0.75 mm² 2 x 0.010...2 x 0.030 in²
mm²	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 16

## Electronic Module 2AO ±10V/0-20mA 12 Bits

### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (I) Current
- (U) Voltage