



Main

Range of product	Modicon TM5
Product or component type	Analog input module
Analogue input number	1
Analogue input type	Full-bridge strain gauge 85...5000 Ohm differential
Analogue input resolution	24 bits

Complementary

Range compatibility	Modicon M258 Modicon LMC058
Product compatibility	Logic controller Motion controller
Maximum number of sensors	4
Colour	White
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
Local signalling	1 LED green for power supply 1 LED red for power supply 1 LED green for input status
Current consumption	2 mA at 5 V DC bus 52 mA at 24 V DC input/output 65 mA at 5.5 V DC full-bridge (4/6 wires)
Maximum power dissipation in W	1.25 W
Marking	CE
Net weight	0.025 kg

Environment

Temperature drift	10 ppm/°C
Standards	IEC 61131-2 CSA C22.2 No 142 CSA C22.2 No 213 UL 508
Product certifications	CULus GOST-R CSA C-Tick
Ambient air temperature for operation	0...55 °C without derating (horizontal installation) 0...60 °C with 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	1 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	38 g
Package 1 Height	2 cm
Package 1 width	6 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	97
Package 2 Weight	4 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

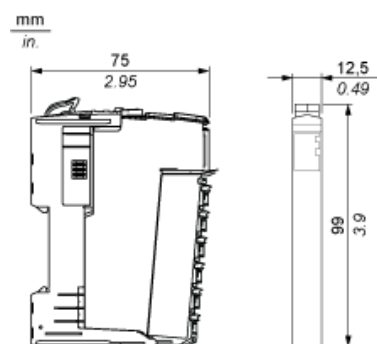
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

Warranty	18 months
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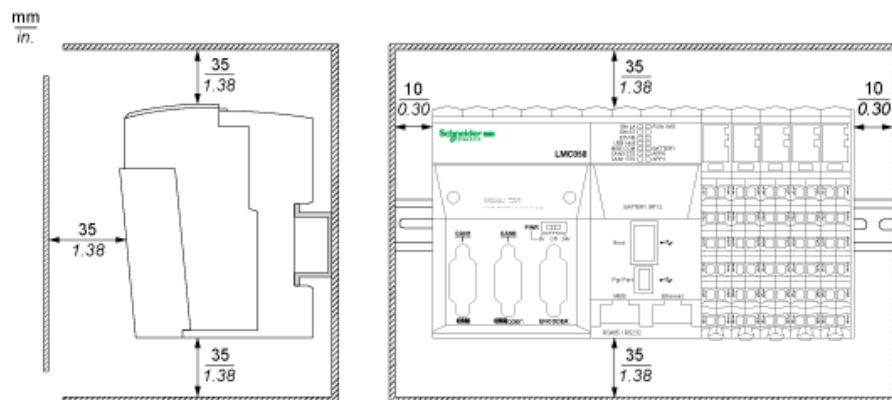
TM5 Slice

Dimensions

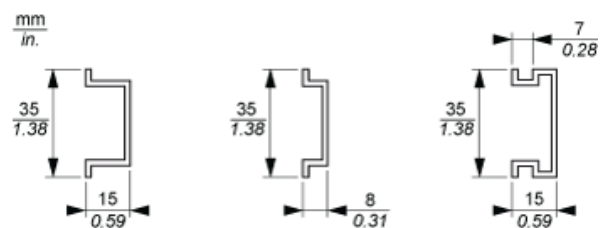


TM5 System

Spacing Requirements



Mounting on a DIN Rail



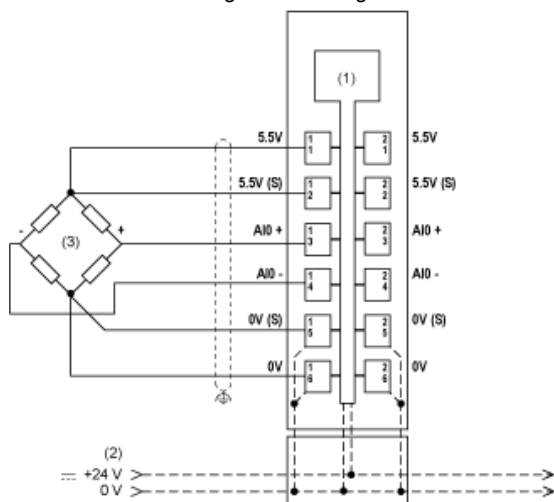
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.				
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

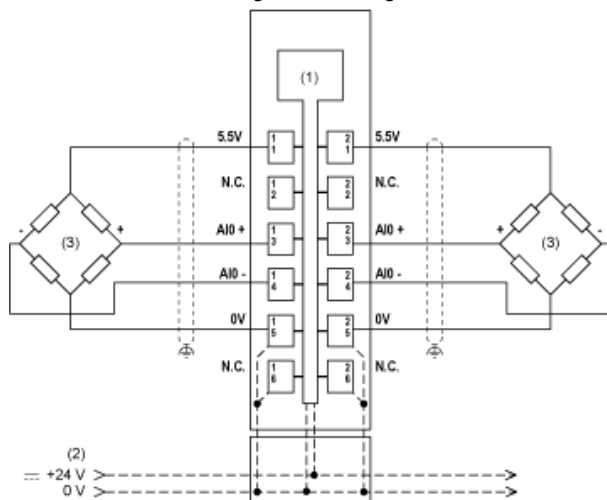
Wiring Diagram

With a 6-Wire Full-Bridge Strain Gauge



- (1): Internal electronics
- (2): 24 Vdc I/O power segment integrated into the bus bases
- (3): 6-wire full-bridge strain gauge
- (S): Sensor

With Two 4-Wire Full-Bridge Strain Gauges



- (1): Internal electronics
- (2): 24 Vdc I/O power segment integrated into the bus bases
- (3): 4-wire full-bridge strain gauge