

Product data sheet

Characteristics

TM5SEAISG

analog input module - 1I - full-bridge strain gauge - 24 bits



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 LMC058 Modicon M258
Product compatibility	Motion controller Logic controller
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 input status 1 LED red for power supply 1 LED green for power supply
Current consumption	65 mA 5.5 V DC full-bridge (4/6 wires) 52 mA 24 V DC input/output 2 mA 5 V DC bus
Power dissipation in W	<= 1.25 W
Marking	CE
Product weight	0.025 kg

Environment

Temperature drift	10 ppm/°C
Standards	CSA C22.2 No 142 IEC 61131-2 UL 508 CSA C22.2 No 213
Product certifications	CSA C-Tick CULus GOST-R
Ambient air temperature for operation	0...50 °C (vertical installation) 0...60 °C with derating factor (horizontal installation) 0...55 °C without 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

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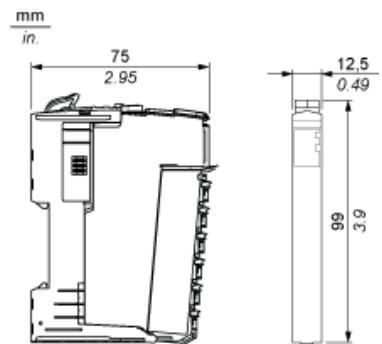
Storage altitude	0...3000 m
Vibration resistance	3.5 mm (f= 5...8.4 Hz) DIN rail 1 gn (f= 8.4...150 Hz) DIN rail
Shock resistance	15 gn for 11 ms
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic 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	CISPR 11

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1218 -  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available

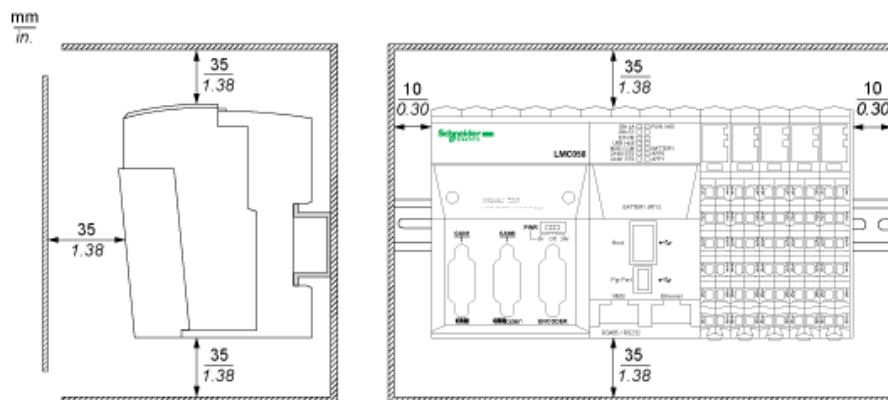
TM5 Slice

Dimensions

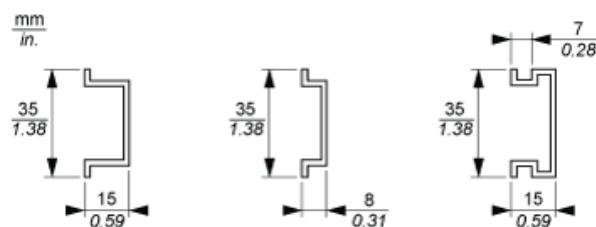


TM5 System

Spacing Requirements



Mounting on a DIN Rail



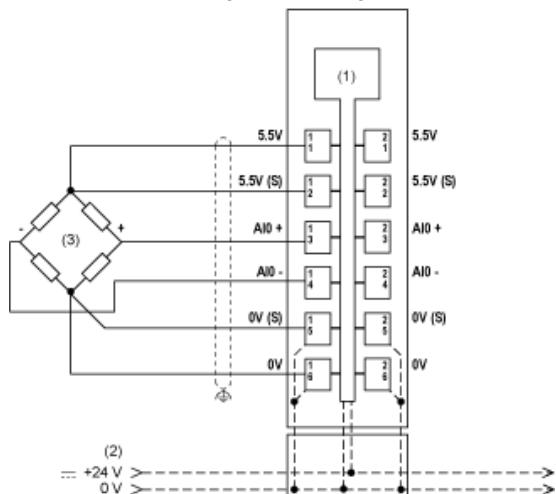
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0,35	0,5	0,75	1,5
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

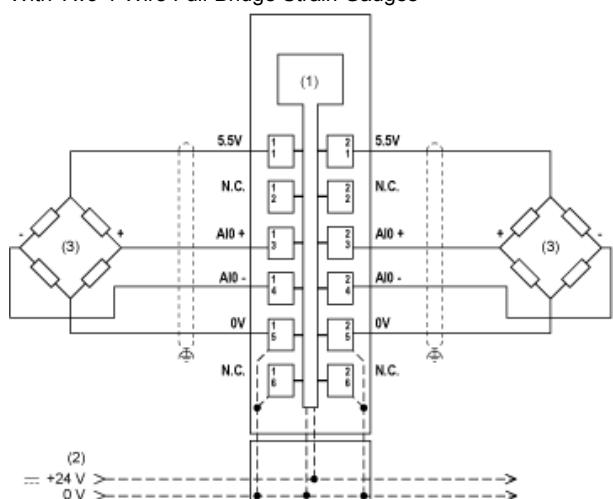
Wiring Diagram

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