

TM5SBER2

Remote receiver module, Modicon TM5,
communication between I/O & distribute power



Main

Range of product	Modicon TM5
Product or component type	Remote receiver module
Product specific application	Communication between remote I/O Distribute power to TM5 bus and I/O

Complementary

Range compatibility	Modicon M258 Modicon LMC058
Product compatibility	Logic controller Motion controller
Colour	Grey
Bus length	2500 m
Maximum cable distance between devices	100 m
Current consumption	25 mA at 24 V DC input/output
Maximum power dissipation in W	2.22 W
Local signalling	1 LED green for power supply 1 LED red for power bus current 1 LED red for power supply 1 LED yellow for communication data bus
Marking	CE
Net weight	0.025 kg

Environment

Standards	CSA C22.2 No 142 CSA C22.2 No 213 IEC 61131-2 UL 508
Product certifications	CSA CULus C-Tick GOST-R
Ambient air temperature for operation	0...50 °C (vertical installation) 0...55 °C without derating (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 IP67
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	60 g
Package 1 Height	3 cm
Package 1 width	6 cm
Package 1 Length	11 cm

Offer Sustainability

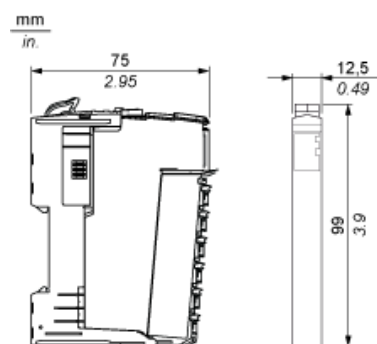
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 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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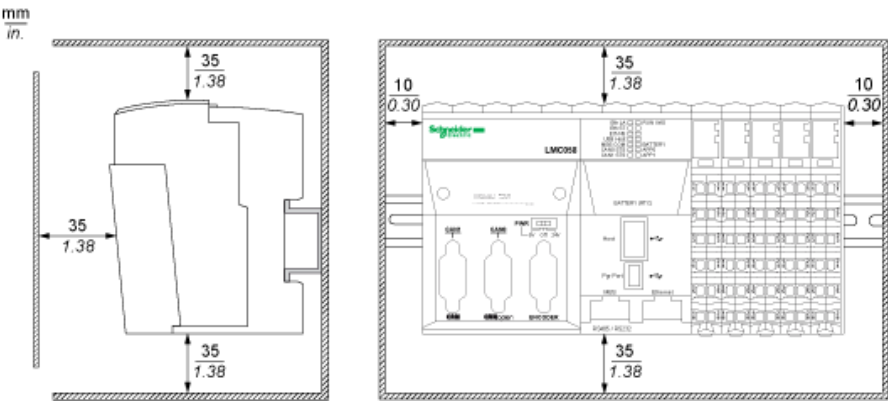
TM5 Slice

Dimensions

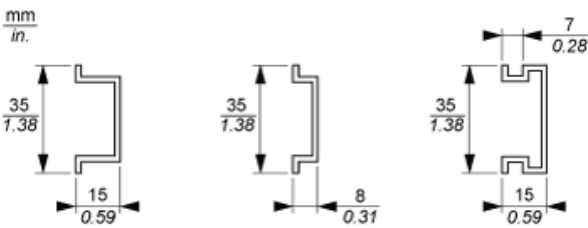


TM5 System

Spacing Requirements



Mounting on a DIN Rail



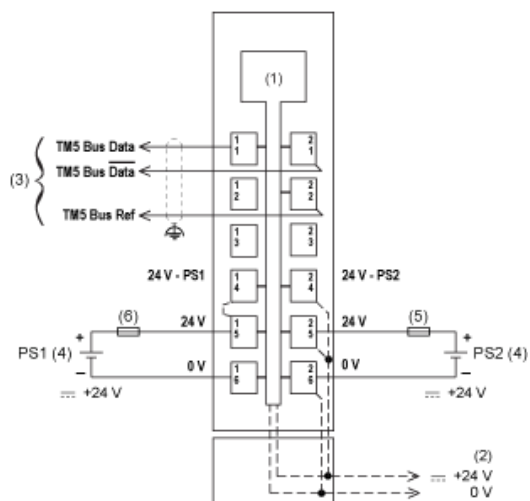
TM5 System Wiring Recommendations

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

Receiver Electronic Module

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) TM5 expansion bus cable (TCSXCNNXNX100)
- (4) PS1/PS2: External isolated SELV power supply 24 Vdc limited to 200 VA for UL508 conformance, or limited to 150 VA for CSA 22.2, N ° 142 conformance
- (5) External fuse, Type T slow-blow: 10 A max., 250 V
- (6) External fuse, Type T slow-blow: 1 A, 250 V