



Main

Range of product	Modicon TM5
Product or component type	Controller system
Device application	Safety logic controller
Processor name	Intel Xscale 266 MHz
Reverse polarity protection	Yes

Complementary

Communication network type	SERCOS III (Ethernet)
Transmission rate	100 Mbit/s for full duplex bus length
Cycle time	1 ms
Realtime clock	With non-volatile memory
Number of devices	2 shielded RJ45 1 memory key slot
Function available	Support max 20 safety nodes With 2 internal switch
Maximum cable distance between devices	100 m between station
Rated voltage	24 V -15...20 %
Input protection type	Integrated fuse (not interchangeable)
Power consumption in W	5.1 W
Type of cooling	Fanless
Marking	CE
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1
Safety reliability data	PFH < 1E-9 MTTFd > 100 years PFD < 1E-5
Local signalling	1 LED (green or orange) for application run or SoSafe debug mode 1 LED (green) for authorization status 1 LED (orange) for configuration status (Ready) 1 LED (orange) for firmware status 4 LEDs (red) for boot status 1 LED (orange) for memory key status
Colour	Red
Width	87.5 mm
Height	99 mm
Depth	75 mm
Net weight	0.29 kg

Environment

Ambient air temperature for operation	0...45 °C (vertical installation) 0...55 °C (horizontal installation)
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20
Operating altitude	0...2000 m
Standards	IEC 61511 IEC 61131-2 EN 13849-1 IEC 61508 IEC 62061
Product certifications	GOST-R CULus

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	523 g
Package 1 Height	13 cm
Package 1 width	16 cm
Package 1 Length	31 cm
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Weight	2.615 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

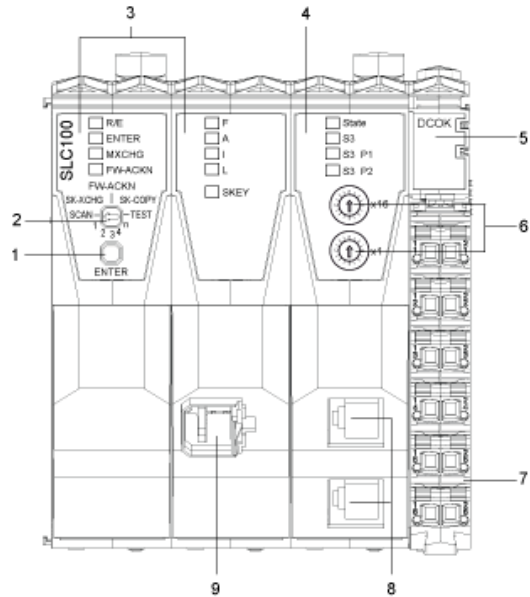
Offer Sustainability

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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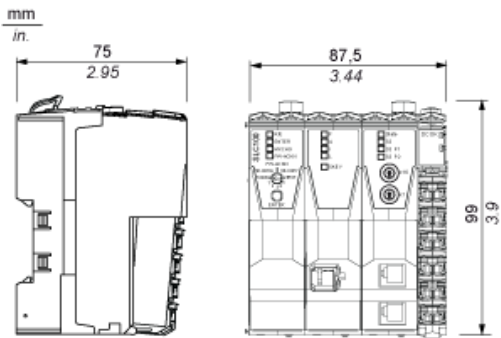
Safe Logic Controller Module



- (1) Confirmation button
- (2) Selection switch
- (3) Safety processor
- (4) SERCOS III interface
- (5) Integrated power supply
- (6) SERCOS III address switches
- (7) Terminal block for Safe Logic Controller supply
- (8) Ethernet SERCOS III connection with 2 x RJ45 for simple wiring
- (9) Memory Key slot

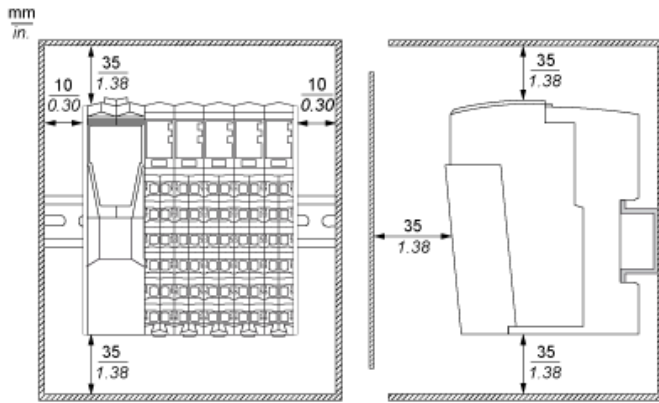
TM5 Safe Logic Controller

Dimensions

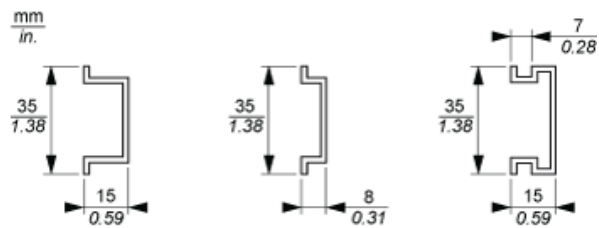


TM5 Safety System

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