

# Product datasheet

Specifications



## Safe logic controller - CPU standard - SERCOS III interface - 20 nodes

TM5CSLC100FS

⚠ To be discontinued on: 31 Dec 2025

EAN Code: 3595864127989

⚠ To be discontinued

### 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
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 Height	13.100 cm
Package 1 Width	16.500 cm
Package 1 Length	31.300 cm
Package 1 Weight	509.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	4.042 kg

## Logistical informations

Country of origin	AT
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## Contractual warranty

Warranty	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 250

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

PVC free Yes

## Use Again

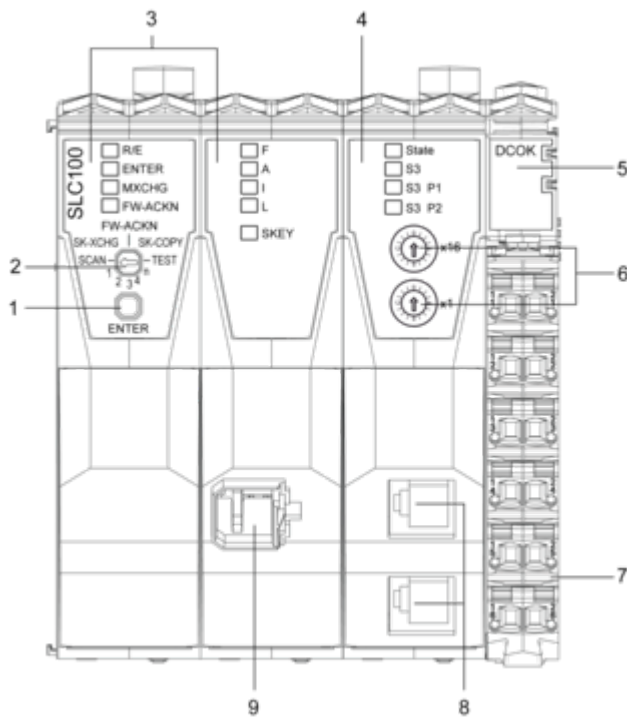
### Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

Presentation

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

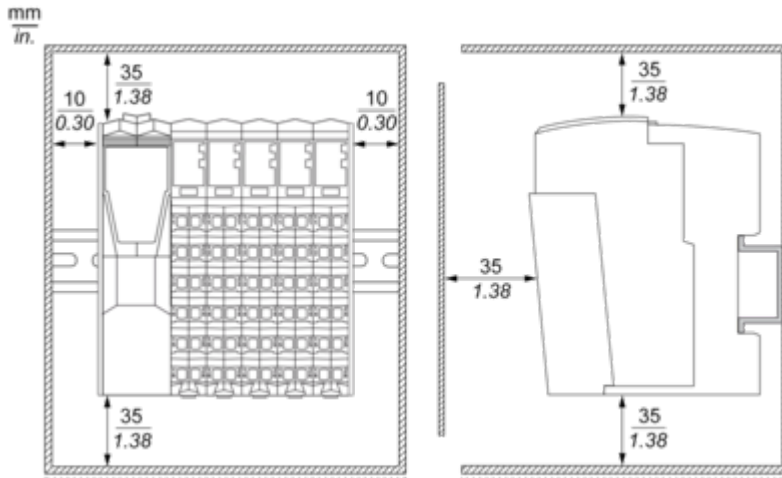


Mounting and Clearance

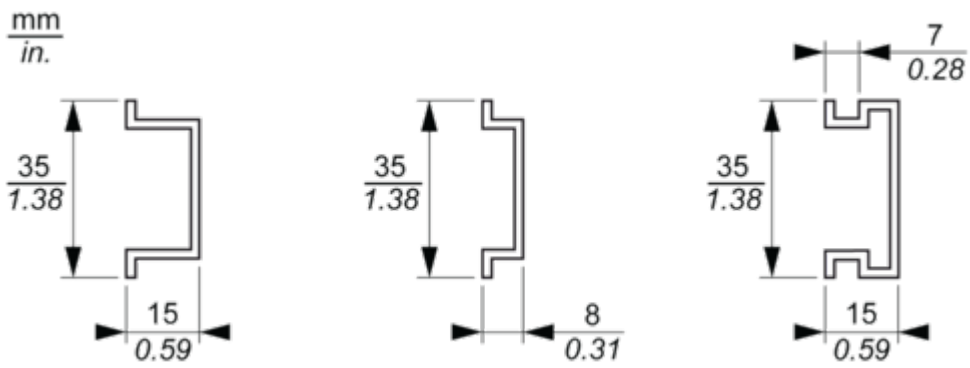
TM5 Safety System

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Spacing Requirements



Mounting on a DIN Rail








Connections and Schema

**TM5 System Wiring Recommendations**

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

 mm in.				
mm <sup>2</sup>	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