Product datasheet

Specifications



Controller system, Modicon TM5, Safe logic CPU plus, SERCOS III interface, 80 nodes

TM5CSLC200FS

Discontinued on: 31 Dec 2025

To be discontinued

EAN Code: 3595864127996

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 of 32 machine options With 2 internal switch Support max 100 safety nodes
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	PFD < 1E-5 PFH < 1E-9 MTTFd > 100 years
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 62061 EN 13849-1 IEC 61508 IEC 61131-2 IEC 61511
Product certifications	cULus GOST-R

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.200 cm
Package 1 Width	15.700 cm
Package 1 Length	31.300 cm
Package 1 Weight	510.000 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	3.890 kg

Logistical informations

Country of origin	AT

Contractual warranty

Warranty (in months)	18

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 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**31 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**219 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**
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	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	**Yes**

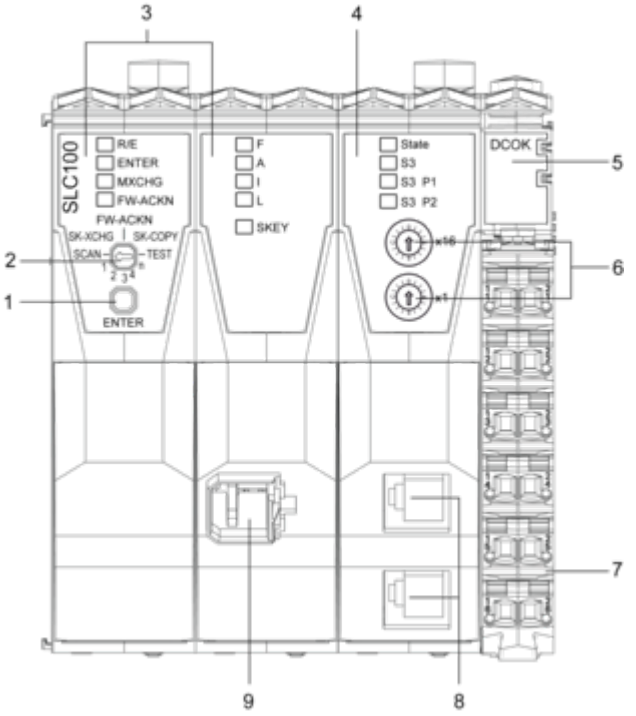
Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	**No**

Presentation

Safe Logic Controller Module

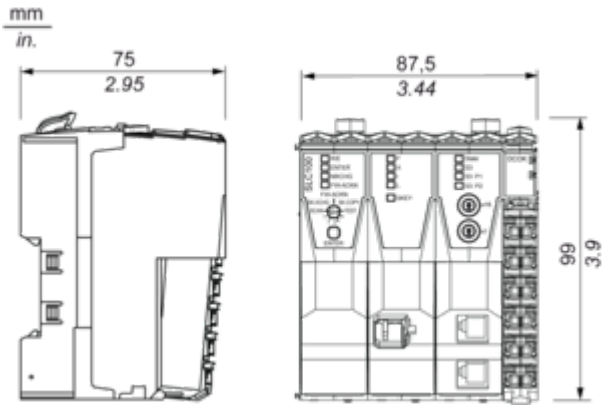


(1) Confirmation button
(2) Selection switch
(3) Safety processor
(4) SERCOS III interface
(5) Integrated power supply
(6) SERCOS III address switches
(7) Terminal block for Safe Logic Controller supply
(8) Ethernet SERCOS III connection with 2 x RJ45 for simple wiring
(9) Memory Key slot

Dimensions Drawings

TM5 Safe Logic Controller

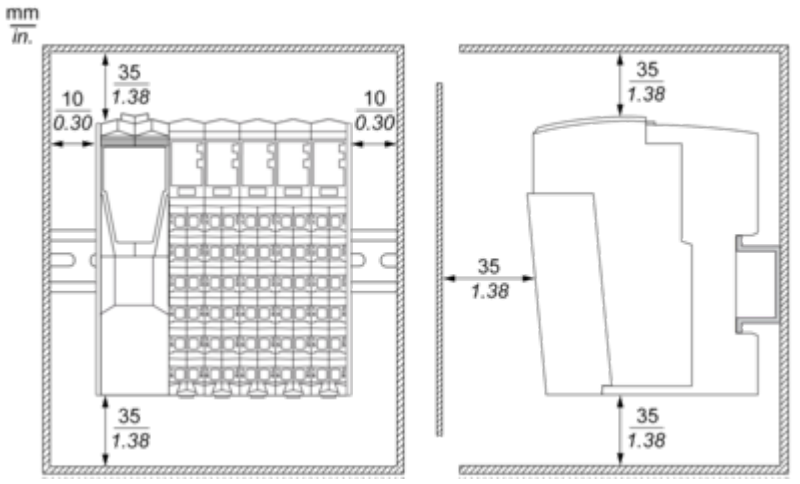
Dimensions



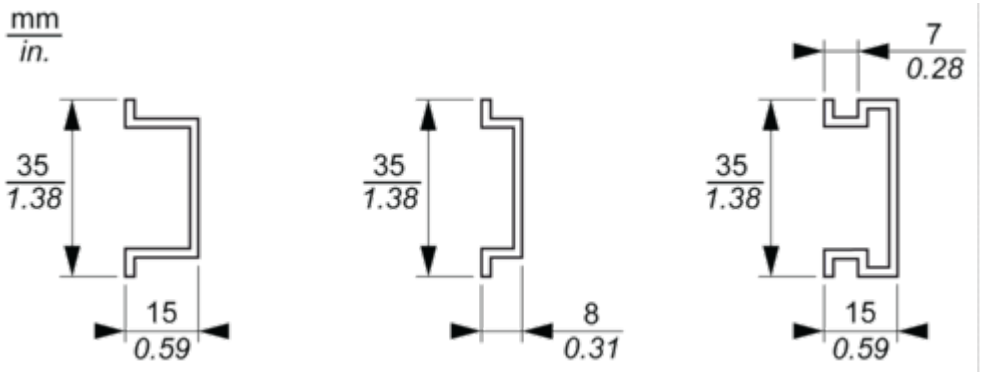
Mounting and Clearance

TM5 Safety System

Spacing Requirements



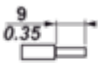
Mounting on a DIN Rail



Connections and Schema

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