Product data sheet

Specifications



Controller system, Modicon TM5, Safe logic CPU standard, SERCOS 3 interface, 20 nodes

TM5CSLC100FS

Product availability: Non-Stock - Not normally stocked in distribution facility

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	328.08 ft (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 IEC 61508 SIL 3 IEC 62061 PL = e 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
Color	Red
Width	3.4 in (87.5 mm)
Height	3.9 in (99 mm)
Depth	3.0 in (75 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Product Weight	0.64 lb(US) (0.29 kg)

Environment

Ambient air temperature for operation	32…113 °F (0…45 °C) vertical installation) 32…131 °F (0…55 °C) horizontal installation)
Ambient Air Temperature for Storage	-13…158 °F (-25…70 °C)
Relative Humidity	5…95 % without condensation
IP Degree of Protection	IP20
Operating altitude	0...6561.68 ft (0...2000 m)
Standards	IEC 61511 IEC 61131-2 EN 13849-1 IEC 61508 IEC 62061
Product Certifications	GOST-R cULus

Ordering and shipping details

Category	US1PC5218360
Discount Schedule	PC52
GTIN	3595864127989
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.157 in (13.100 cm)
Package 1 Width	6.496 in (16.500 cm)
Package 1 Length	12.323 in (31.300 cm)
Package weight(Lbs)	17.954 oz (509.000 g)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	15.748 in (40.000 cm)
Package 2 Length	23.622 in (60.000 cm)
Package 2 Weight	8.911 lb(US) (4.042 kg)

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**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

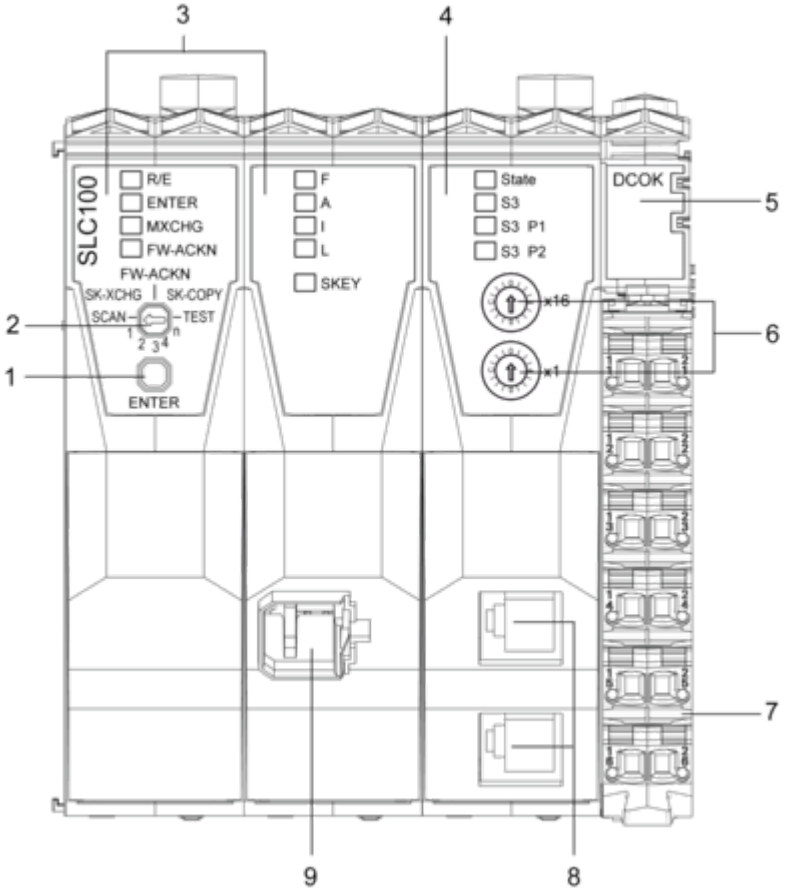
Use Again

Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**

Presentation

Safe Logic Controller Module

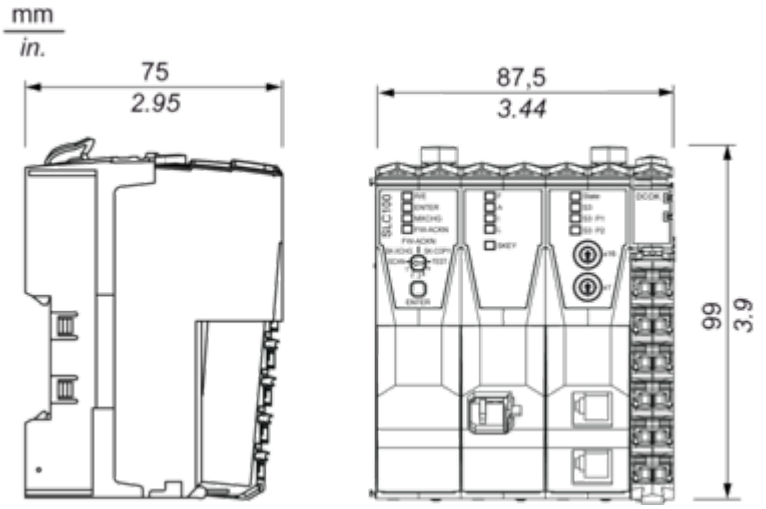


(1) Confirmation button
(2) Selection switch
(3) Safety processor
(4) SERCOS III interface
(5) Integrated power supply
(6) SERCOS III address switches
(7) Terminal block for Safe Logic Controller supply
(8) Ethernet SERCOS III connection with 2 x RJ45 for simple wiring
(9) Memory Key slot

Dimensions Drawings

TM5 Safe Logic Controller

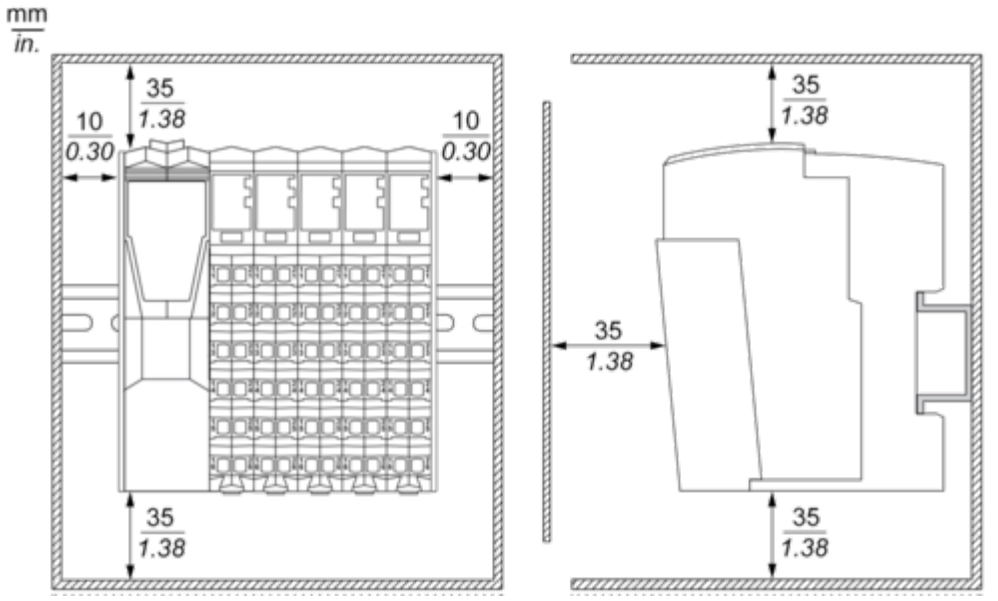
Dimensions



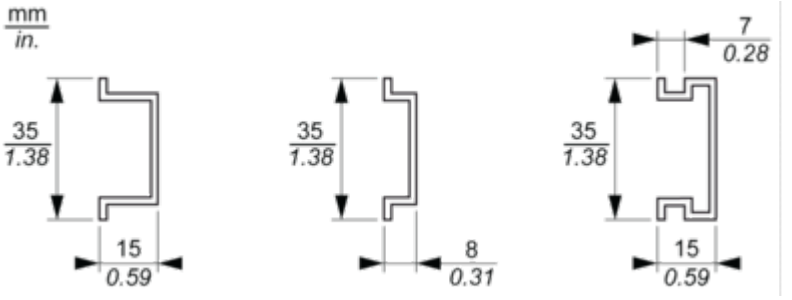
Mounting and Clearance

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. 9 / 0.35				
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