# **Product datasheet**

Specification





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

TM5CSLC100FS

EAN Code: 3595864127989

### 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 -1520 %	
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	045 °C (vertical installation) 055 °C (horizontal installation)		
Ambient Air Temperature For Storage	-2570 °C		
Relative Humidity	595 % without condensation		
Ip Degree Of Protection	IP20		
Operating Altitude	02000 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

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

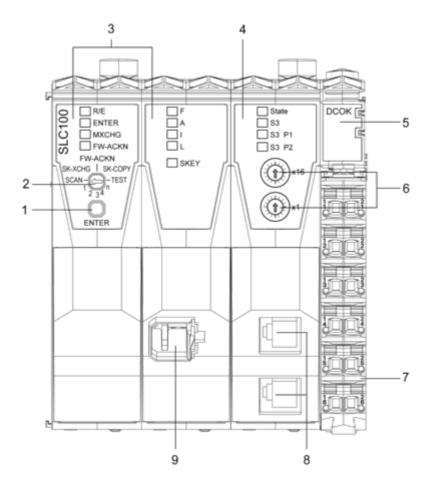
<b>②</b>	Toxic Heavy Metal Free	
<b>②</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

#### **Certifications & Standards**

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

#### Presentation

#### **Safe Logic Controller Module**



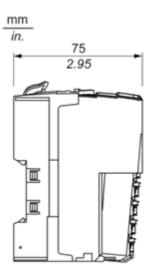
- (1) Confirmation button
- (2) Selection switch
- (3) Safety processor
- (4) SERCOS III interface
- (5) Integrated power supply
- (6) SERCOS III address switches
- (7) Terminal block for Safe Logic Controller supply
- (8) Ethernet SERCOS III connection with 2 x RJ45 for simple wiring
- (9) Memory Key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

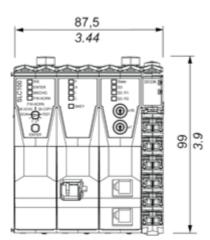
## TM5CSLC100FS

### **Dimensions Drawings**

# TM5 Safe Logic Controller

#### **Dimensions**

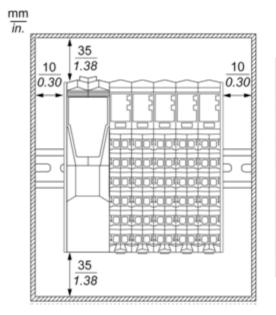


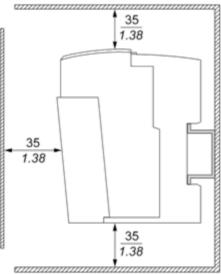


### Mounting and Clearance

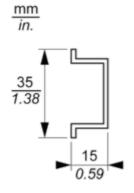
### TM5 Safety System

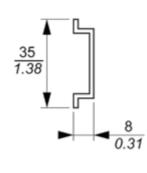
#### **Spacing Requirements**

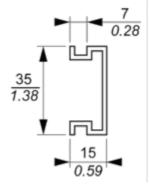




#### Mounting on a DIN Rail







## **Product datasheet**

## TM5CSLC100FS

Connections and Schema

### TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		Ω		
	mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	2414	2416	2 x 242 x 18