TM5CSLC400FS

Controller system, Modicon TM5 Safety, Safe logic CPU, SERCOS III interface, 100 nodes

Green Premium™

Main

Range of product	Modicon TM5
Product or component type	Controller system
Device application	Safety logic controller
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 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	4.3 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 ISO 13849-1 category 4
Safety reliability data	PFD < 1E-5 PFH < 1E-9 MTTFd > 100 years
Local signalling	1 LED (green or orange) for application run or machine expert - safety debug mode 1 LED (green) for authorization status 1 LED (orange) for configuration status (Ready) 1 LED (orange) for firmware status 1 LED (red) for boot status / FS status 1 LED (orange) for memory key status
Colour	Red
Width	62.5 mm
Height	99 mm
Depth	75 mm
Net weight	0.208 kg

Environment

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

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.400 cm
Package 1 Width	10.500 cm
Package 1 Length	17.000 cm
Package 1 Weight	310.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	9
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.212 kg

Offer Sustainability

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Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
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

TM5CSLC400FS

TM5 Safety logic Controller Module
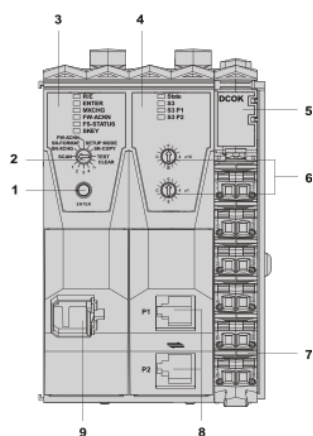
(1) Confirmation button

(2) Selection switch

(3) Logic processor

(4) SERCOS III interface

(5) Integrated power supply

(6) SERCOS III address switches

(7) Terminal block for Safe Logic Controller supply

(8) SERCOS III connection with 2 x RJ45
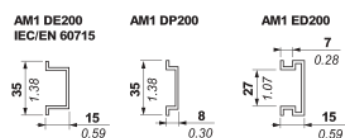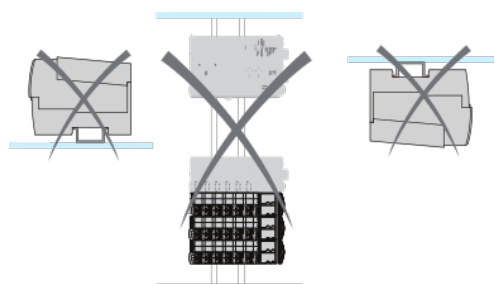
(9) Memory Key slot

TM5 Safety logic Controller

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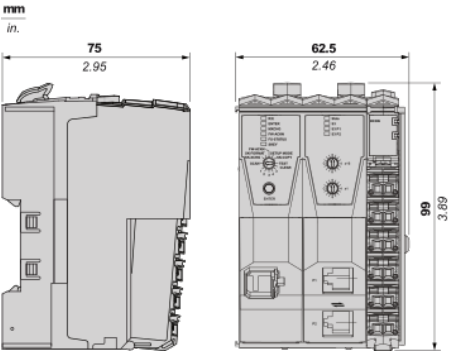
Mounting and Clearances

Spacing Requirements
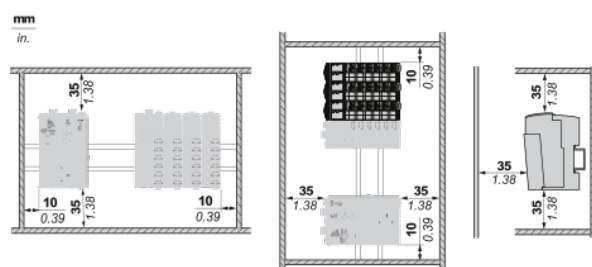
Mounting on a DIN Rail

Incorrect Mounting

TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm / in. (9 / 0.35)	⊏▭	⊂▭	⊂▯▭	⊐▯▭
mm²	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