

Modicon TM5

High-Performance and Safe IP20 Modular I/O System

Safety logic controllers and safety I/O modules

Certifications

- Modicon TM5 embedded safety offer is certified by TÜV Nord Group up to performance level PLe according to EN ISO 13849-1, and SIL cl 3 according to IEC 61508, IEC 62061.
- Modicon TM5 safety logic controllers are certified by CSA, Class I, Div. 2, cULus, and marked CE and UKCA.

Criteria	Characteristic value
Category	Cat 4 according to EN ISO 13849
Maximum performance level	PLe according to EN ISO 13849
Maximum safety integrity level	SIL 3 according to IEC 62061
Maximum safety integrity level	SIL 3 according to IEC 61508
PFH	$< 1 \cdot 10^{-9}$
PFD	$< 2 \cdot 10^{-5}$ for a proof test interval of 20 years
PT	20 years max.
SFF	> 90%
Service life	20 years max.
DC	> 90%
MTTFd	> 100 years

Description

- Slot for locking plate TM5ACLPR10 (1)
- Mechanical clips for locking onto a symmetrical rail (vertical or horizontal mounting)
- Logic processor / Sercos interface LED indicators
- Integrated power supply
- One selection switch functions (Setup mode, Acknowledgement, ...)
- Two Sercos address switches
- Button for confirming a Function
- QR code printed in front face; link to product data page
- Two shielded RJ45 ports for Sercos 3 bus, controlled node
- Safety removable spring terminal block (12-pin, safety coded red) TM5ACTB52FS (1)
- One slot for exchangeable memory key (2)

References

Designation	Communication interface	I/O	Reference	Weight kg/lb
Safety logic controllers Dimensions (W x H x D): 62.5 x 99 x 75 mm (2.46 x 3.89 x 2.92 in)	2x shielded RJ45 ports for Sercos 3 bus	20 safety nodes	TM5CSLC300FS	0.208/ 0.458
		100 safety nodes	TM5CSLC400FS	0.208/ 0.458

Memory key for Modicon TM5 safety logic controllers

- The memory key is required to load the program, parameters and configuration into the Modicon TM5CSLC●00FS safety logic controller when it boots up. In addition, it can be used to store the program, the parameters, and the system configuration and transfer the data to another TM5CSLC●00FS safety logic controller.
- Its is designed with a mechanical locking mechanism to prevent unintended removal.

Designation	Description	Reference	Weight kg/lb
Memory key	8 MB	TM5ACSLCM8FS	0.013/ 0.028

Accessories

See [page 13](#)

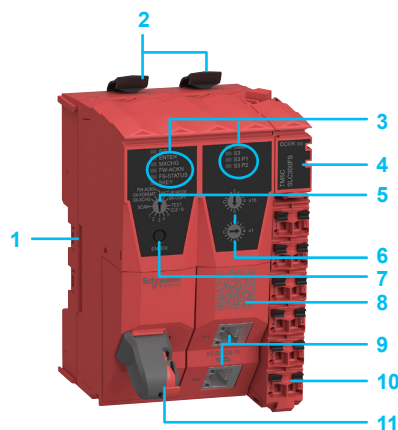
Programming software for Modicon TM5 safety logic controllers

EcoStruxure Machine Expert (Safety addon)

Please refer to catalog
ref. [DIA3ED2180701EN](#)

(1) Accessories included in delivery of TM5CSLC300FS and TM5CSLC400FS.

(2) To be ordered separately.



TM5CSLC300FS



TM5CSLC400FS



TM5ACSLCM8FS