



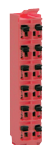
TM5SDI2DFS

TM5SDI4DFS
TM5STI4ATCFS

TM5SDO2TFS



TM5ACBM3FS

TM5ACTB52FS
TM5ACTB5FFS

TM5SPS10FS



TM5ACBM4FS



TM5NS31



TM5SPS3



TM5ACBN1



TM5ACTB12PS

References			
Designation	Description	Reference	Weight kg/lb
Safety digital I/O electronic modules			
Safety digital input modules	2 safety digital inputs, 24 V DC, sink	TM5SDI2DFS	0.025/ 0.055
	4 safety digital inputs, 24 V DC, sink	TM5SDI4DFS	0.025/ 0.055
	20 safety digital inputs, 24 V DC, sink	TM5SDI20DFS	0.059/ 0.013
Safety mixed digital I/O modules	2 safety digital inputs, 24 V DC, sink 2 NO safety relay outputs	TM5SDM4DTRFS	0.025/ 0.055
	6 safety digital inputs, 24 V DC, sink 2 safety digital outputs, 24 V DC, 500 mA	TM5SDM8TBFS	0.066/ 0.146
Safety digital output modules	2 safety digital outputs, 24 V DC, transistor 0.5 A	TM5SDO2TFS	0.025/ 0.055
	2 safety digital outputs, 24 V DC, transistor 2 A	TM5SDO2TAFS	0.025/ 0.055
	4 safety digital outputs, 24 V DC, transistor 0.5 A	TM5SDO4TFS	0.025/ 0.055
	4 safety digital outputs, 24 V DC, transistor 2 A	TM5SDO4TAFS	0.025/ 0.055
	6 safety digital outputs, 24 V DC, transistor 0.2 A	TM5SDO6TBFS	0.025/ 0.055
	2 NO safety relay outputs, 230 V AC 6 A	TM5SDO2DTRFS	0.101/ 0.223
Safety analog input electronic modules			
Safety analog input modules	4 safety analog inputs, 0...20 mA/4...20 mA 24-bit resolution	TM5SAI4AFS	0.068/ 0.150
	4 safety thermocouple inputs: PT100/PT1000 inputs, 24-bit resolution	TM5STI4ATCFS	0.066/ 0.146
Safety counter electronic module			
Safety counter module	1 safety counter input, 24 V DC, sink, A-A, A-B, A-A'-B'- wiring modes, 7 kHz maximum frequency	TM5SDC1FS	0.052/ 0.115
Safety bus base for safety I/O electronic modules			
Safety bus base for safety I/O electronic modules	Internal interconnected I/O power supply; 0.13 W power consumption	TM5ACBM3FS	0.020/ 0.044
Safety terminal blocks			
Safety terminal blocks	For use with TM5SDI2DFS, TM5SDO2TFS, TM5SDM4DTRFS and TM5SDC1FS safety modules (24 V DC power supply connected, 12-pin spring terminals, 10 A nominal current per contact)	TM5ACTB52FS	0.020/ 0.044
	For use with PT1000 sensors on TM5STI4ATCFS module (24 V DC, 16-pin spring terminals, 10 A nominal current per contact)	TM5ACTB5EFS	0.040/ 0.088
	For use with 4-20 mA analog inputs on TM5SAI4AFS module, digital mixed I/O TM5SDM8TBFS module and thermocouple inputs without compensation on TM5STI4ATCFS module (24 V DC, 16-pin spring terminals, 10 A nominal current per contact)	TM5ACTB5FFS	0.037/ 0.082
Safety power distribution module			
Safety power distribution module (SPDM)	Power source for specified non-safety-related I/O modules, for use with dedicated TM5ACBM4FS safety bus base (with isolation on left) This supports the predefined safe power-off state for the connected I/O modules (24 V DC, 10 A with integrated safe cut-off function)	TM5SPS10FS	0.080/ 0.176
Safety bus base	For use with TM5SPS10FS safety power distribution module (the internal I/O power supply is isolated on the left)	TM5ACBM4FS	0.059/ 0.130
Interface module for distributed safety I/O on Sercos bus			
Sercos bus interface module	Communication module for Sercos III bus	TM5NS31	0.050/ 0.110
Power distribution electronic module	Input power supply: 24 V $\overline{\text{DC}}$ for Sercos bus, interface, and I/O expansion modules	TM5SPS3 (1)	0.025/ 0.055
Bus base	For TM5NS31 and TM5SPS3 electronic modules Supplied with 2 protective plates, TM5ACPL10 and TM5ACPR10	TM5ACBN1	0.020/ 0.044
Terminal block	12 spring terminals	TM5ACTB12PS	0.016/ 0.035
	For TM5SPS3 electronic module		

(1) Supplied with 2 protective plates, TM5ACPL10 and TM5ACPR10

Modicon TM5

High-Performance and Safe IP20 Modular I/O System

Interface module for distributed I/O on Sercos bus

Description

The TM5 Sercos interface module comprises four parts to be ordered separately:

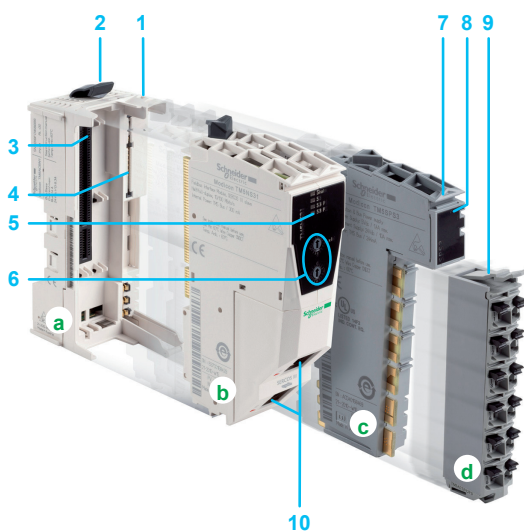
- a TM5ACBN1 bus base (a)
- a TM5NS31 interface electronic module (b)
- a TM5SPS3 power distribution electronic module (c)
- a TM5ACTB12PS removable terminal block (d)

These modules can be mechanically assembled on the bus base before mounting on a symmetrical rail. They offer the following advantages:

- A removable terminal block
- Spring terminals that can be used for quick, tool-free connection of the power supply for the interface module and the I/O expansion modules (the quality of the spring terminals avoids the need for periodic retightening)

This assembly comprises:

- 1 A bus expansion connection on the side of the base to provide the link with the adjacent module
- 2 A mechanical clip for locking onto a symmetrical rail
- 3 A slot for the Sercos interface module with terminals
- 4 A slot for the power distribution module with terminals
- 5 An LED display block for the interface module channels and diagnostics
- 6 Two rotary switches for address selection on the bus
- 7 A slot for the plain text cover holder (label holder)
- 8 An LED display block for the power distribution module channels and diagnostics
- 9 A removable spring terminal block with locking clip and slots for colored ID markers
- 10 Two RJ45 connectors for the Sercos bus connection (bus connected/bus disconnected)



TM5NS31



TM5SPS3



TM5ACBN1



TM5ACTB12PS

References

Description	Characteristics	Reference	Weight kg/lb
Sercos bus interface module	Communication module for Sercos III bus	TM5NS31	0.050/ 0.110
Power distribution electronic module	Input power supply: 24 V $\pm$ for Sercos bus, interface, and I/O expansion modules	TM5SPS3 (1)	0.025/ 0.055
Bus base	For TM5NS31 and TM5SPS3 electronic modules Supplied with 2 protective plates, TM5ACPL10 and TM5ACPR10	TM5ACBN1	0.020/ 0.044
Terminal block	12 spring terminals For TM5SPS3 power distribution electronic module	TM5ACTB12PS	0.016/ 0.035

Accessories

See [page 13](#)

Configuration software

EcoStruxure Machine Expert software, please refer to catalog ref. [DIA3ED2180701EN](#)

(1) Supplied with 2 protective plates, TM5ACPL10 and TM5ACPR10