

Modicon TM3

I/O expansion modules for Modicon controllers

Modicon TM3 bus expansion system: transmitter and receiver modules

Presentation

TM3 transmitter and receiver modules can be used to:

- Increase the number of TM3 I/O expansion modules that can be connected to an M2●● logic controller or Modicon M262 logic/motion controller from 7 to 14
- locate Modicon TM3 expansion modules remotely, up to 5 m (16.404 ft) away

The transmitter module and receiver module are physically connected by a bus expansion cable, reference **VDIP184546●●●**, or any other Cat 5E, F/UT cable.

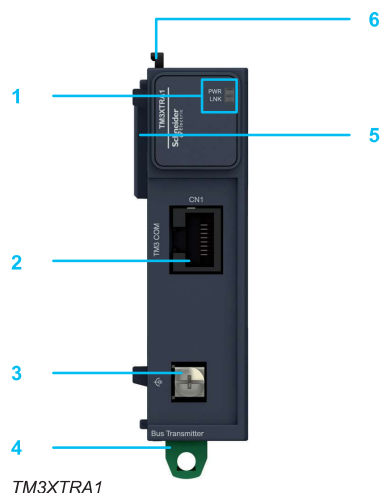
Mounting

- TM3 bus expansion modules are mounted on a symmetrical DIN rail ⌐.
- For plate or panel mounting, use the **TMAM2** kit.

Description

TM3XTRA1 transmitter module

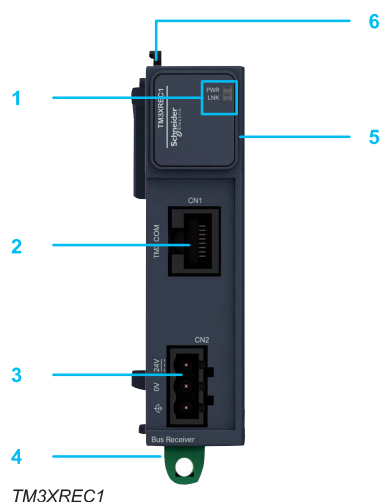
- 1 Block with 2 LEDs displaying communication and power supply status
- 2 RJ45 connector for the **VDIP184546●●●** bus expansion cable, or any other shielded Cat 5E, F/UT cable
- 3 Screw terminal for the functional ground (FG) connection
- 4 Clip for locking on symmetrical DIN rail ⌐
- 5 TM3 bus connector providing continuity of the link with the connected module
- 6 Locking catch for the adjacent module



TM3XTRA1

TM3XREC1 receiver module

- 1 Block with 2 LEDs displaying communication and power supply status
- 2 RJ45 connector for the **VDIP184546●●●** bus expansion cable, or any other shielded Cat 5E, F/UT cable
- 3 Slot for screw terminal block for connecting the power supply (1)
- 4 Clip for locking on symmetrical DIN rail ⌐
- 5 TM3 bus connector providing continuity of the link with the connected module
- 6 Locking catch for the adjacent module



TM3XREC1

(1) Removable terminal block supplied with each module.

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TM3XTRA1



TM3XREC1

References

Modicon TM3 bus expansion system

Designation	Characteristics	Reference	Weight kg/ lb
Transmitter module	Data transmission module Power supply: via the TM3 bus	TM3XTRA1	0.065/ 0.143
Receiver module	Data reception module Power supply: 24 V $\overline{\text{DC}}$ (with external power supply)	TM3XREC1 (1)	0.075/ 0.165

Accessory for transmitter module

Designation	Characteristics	Length m (ft)	Reference	Weight kg/ lb
Functional ground cable	Functional ground for the TM3XTRA1 transmitter module	0.12 (0.39)	Cable supplied with the TM3XTRA1 transmitter module	

Connection cables for CÉ market

Designation	Used for	Length m (ft)	Reference	Weight kg/ lb
Shielded category 5E TM3 bus expansion cables	TM3 bus expansion by linking transmitter and receiver modules Equipped with an RJ45 connector at each end	0.5 (1.64)	VDIP184546005	—
		1 (3.28)	VDIP184546010	—
		2 (6.56)	VDIP184546020	—
		3 (9.84)	VDIP184546030	—
		5 (16.40)	VDIP184546050	—

Connection cables for UL market

Designation	Used for	Length m (ft)	Reference	Weight kg/ lb
Shielded twisted pair TM3 bus expansion cables, UL compatible	TM3 bus expansion by linking transmitter and receiver modules Equipped with an RJ45 connector at each end	2 (6.56)	490NTW00002U	—
		5 (16.40)	490NTW00005U	—

Replacement parts

Designation	Description	Unit reference	Weight kg/ lb
Mounting kit <i>Sold in lots of 10</i>	For mounting bus expansion modules on a plate or panel	TMAM2	0.065/ 0.143
Set of power supply terminal blocks	8 removable screw terminal blocks	TMAT2PSET	0.127/ 0.280

(1) The module is supplied with a removable screw terminal block for connecting the power supply.