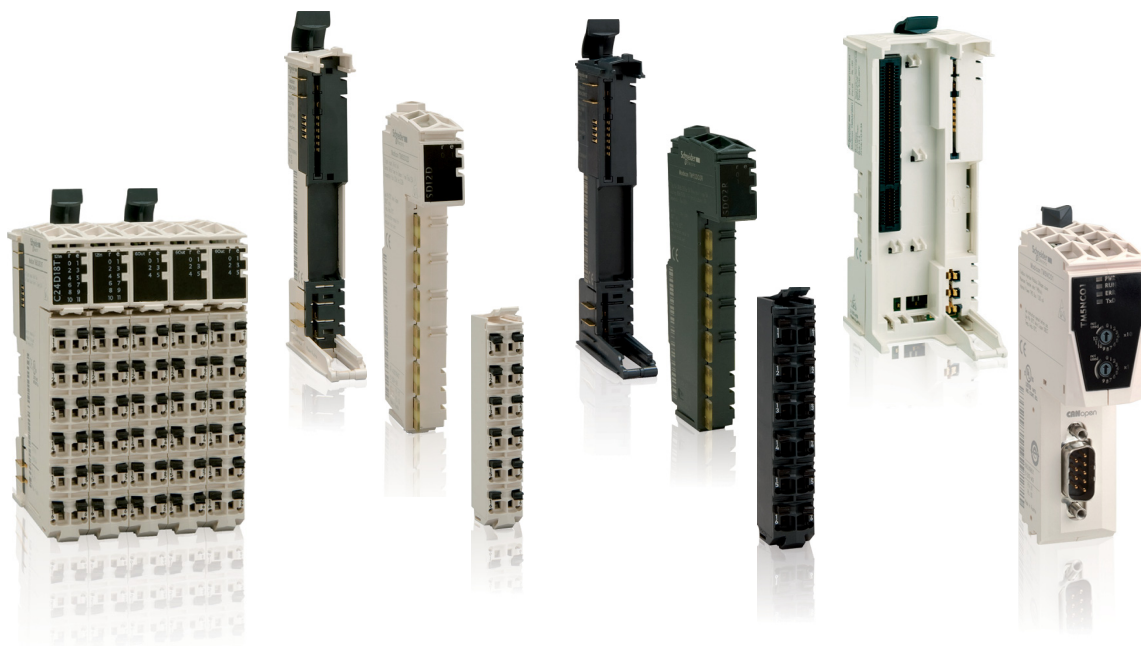


Modicon TM5 expansion modules

Catalogue 2013



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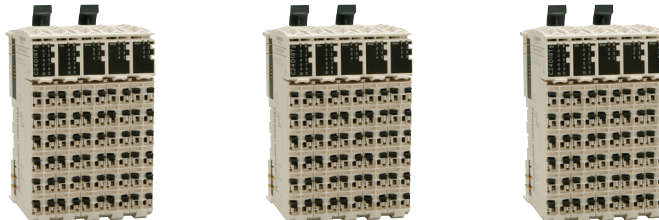
Modicon TM5 Expansion modules

Modicon TM5 compact blocks

for Modicon M258 logic controller and Modicon LMC058 motion controller

Applications	Modicon TM5 compact block
	Compatibility

20 I/O	36 I/O	42 I/O
Modicon M258 logic controller		
Modicon LMC058 motion controller		



Channel connection

Digital inputs	Number
	Nominal input voltage
	IEC/EN 61131-2 conformity
	Type of signal (1)
	Type of wiring
	Limit values
	Nominal input current
	Input impedance
	State 0
	State 1

Digital outputs	Number
	Nominal output voltage
	Output current per channel
	Output current per group of channels
	Type of signal (1)
	Type of wiring
	Limit values
	Short-circuit and overload protection

Analog inputs	Number
	Type
	Range
	Resolution
	Sampling period
	without filtering
	with filtering

Analog outputs	Number
	Type
	Range
	Resolution
	Response time

Power supply	
Isolation	Channel-to-channel
	Between channel groups
	Channel-to-bus

Type of Modicon TM5 compact block
--

Page

(1) Source output: PNP output. Sink output: NPN output.

With removable spring terminal blocks (supplied)

12	24	24
24 V ---	24 V ---	24 V ---
Type 1	Type 1	Type 1
Sink	Sink	Sink
3-wire	1-wire	1-wire
20.4... 28.8 V ---	20.4... 28.8 V ---	20.4... 28.8 V ---
3.75 mA	3.75 mA	3.75 mA
6.4 kΩ	6.4 kΩ	6.4 kΩ
5 V max. ---	5 V max. ---	5 V max. ---
15 V min. ---	15 V min. ---	15 V min. ---
8, transistor	12, relays with NO contact	18, transistor
24 V ---	24 V ---	24 V ---
0.5 A	0.5 A	0.5 A
1 A max.	5 A max.	2 A max.
Source	Source	Source
3-wire	1-, 2- or 3-wire	2-wire
20.4...28.8 V ---	20.4...28.8 V ---	20.4...28.8 V ---
Yes	Yes	Yes

TM5C12D8T	TM5C24D12R	TM5C24D18T
------------------	-------------------	-------------------

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More technical information on www.schneider-electric.com

24 I/O	16 I/O
Modicon M258 logic controller Modicon LMC058 motion controller	



With removable spring terminal blocks (supplied)

12 24 V $\sim$ Type 1 Sink 2-wire 20.4... 28.8 V $\sim$ 3.75 mA 6.4 k Ω 5 V max. $\sim$ 15 V min. $\sim$ 6, transistor 24 V $\sim$ 0.5 A 2 A max. Source 2-wire 20.4...28.8 V $\sim$ Yes			
4	8	8	8
Voltage/current - 10...+ 10 Vdc 0...20 mA/4...20 mA	Voltage - 10...+ 10 Vdc	Current 0...20 mA/4...20 mA	4 Voltage + 4 current Voltage : - 10...+ 10 Vdc Current : 0...20 mA/4...20 mA
12 bits	11 bits + sign	12 bits	Voltage: 11 bits + sign Current: 12 bits
300 μ s	—	—	—
1 ms	50 ms	50 ms	50 ms
2	8	8	8
Voltage/current - 10...+ 10 Vdc 0...20 mA	Voltage - 10...+ 10 Vdc	Current 0...20 mA	4 Voltage + 4 current Voltage : - 10...+ 10 Vdc Current : 0...20 mA
12 bits	11 bits + sign	12 bits	Voltage: 11 bits + sign Current: 12 bits
1 ms max.	20 ms max. 5 ms per channel	20 ms max. 5 ms per channel	20 ms max. 5 ms per channel
Internal	Internal	Internal	Internal
Non-isolated	Non-isolated	Non-isolated	Non-isolated
—	—	—	—
500 V $\sim$ RMS	500 V $\sim$ RMS	500 V $\sim$ RMS	500 V $\sim$ RMS
TM5C12D6T6L	TM5CAI8O8VL	TM5CAI8O8CL	TM5CAI8O8CVL

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Modicon TM5 Expansion modules

Modicon TM5 compact blocks for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

Modicon **TM5C●●●●●●●●** compact blocks offer a low-cost solution for expanding digital and/or analogue I/O control system configurations.

They consist of a block containing the circuit boards, the bus bases, and the **TM5ACTB12** removable terminal blocks.

They complement the embedded I/O in the various M258 controllers and LMC058 motion controllers and represent a cost-effective way to create configurations requiring a large number of digital or analogue channels.

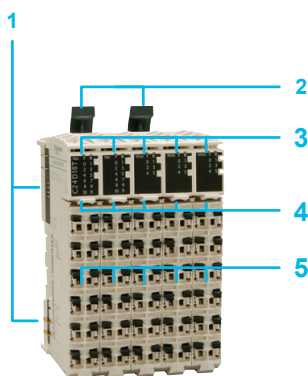
The **TM5C●●●●●●●●** I/O compact block offer consists of:

- A 24 V $\overline{\text{V}}$ digital I/O compact block, with 12 sink inputs and 8 transistor outputs
- A 24 V $\overline{\text{V}}$ digital I/O compact block, with 24 sink inputs and 12 relay outputs
- A 24 V $\overline{\text{V}}$ digital I/O compact block, with 24 sink inputs and 18 transistor outputs
- A 24 V $\overline{\text{V}}$ mixed I/O compact block, with 12 sink digital inputs and 4 analogue inputs, and 6 transistor digital outputs and 2 analogue outputs
- 3 x 24 V $\overline{\text{V}}$ analogue I/O compact block:
 - a block with 8 voltage I/O
 - a block with 8 current I/O
 - a block with 4 voltage I/O + 4 current I/O.

Regardless of which compact block is chosen, the format is the same and corresponds to five I/O expansion modules.

TM5 compact blocks are connected to the TM5 expansion bus on M258 controllers and LMC058 motion controllers.

The advantage of these blocks is their compact size, ease of wiring and, depending on the reference, the option of combining different types of channel.



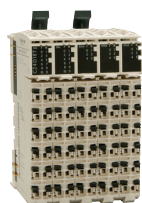
Description

TM5 compact blocks comprise:

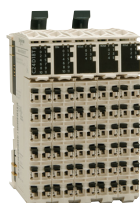
- 1 On each side of the base, a bus expansion connection for the link with the previous controller or block
- 2 Two mechanical locking clips for mounting/dismounting on a symmetrical rail
- 3 Five LED display blocks for the channels and compact block diagnostics
- 4 Five slots for the plain text cover holder (label-holder)
- 5 Five removable spring terminal blocks, each with locking clip and slots for coloured identifiers

Modicon TM5 Expansion modules

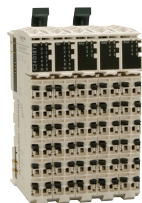
Modicon TM5 compact blocks
for Modicon M258 logic controller and Modicon LMC058
motion controller



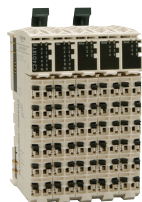
TM5C12D8T



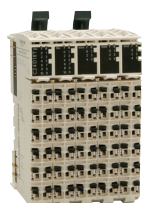
TM5C24D12R



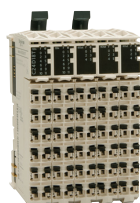
TM5C24D18T



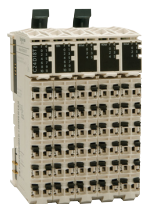
TM5C12D6T6L



TM5CAI8O8VL



TM5CAI8O8CL



TM5CAI8O8CVL

References

Number of I/O	Inputs	Outputs (1)	Reference	Weight kg lb
TM5 I/O digital compact blocks				
20 I/O	12 digital inputs, 24 V $\overline{\text{---}}$, Sink, 3-wire	8 transistor digital outputs, 3-wire, 24 V $\overline{\text{---}}$, Source, 0.5 A	TM5C12D8T	0.037/ 0.082
36 I/O	24 digital inputs, 24 V $\overline{\text{---}}$, Sink, 1-wire, 0.5 A max	12 digital outputs, 5 A relay, with NO contact, 30 V $\overline{\text{---}}$ /230 V $\sim$	TM5C24D12R	0.037/ 0.082
42 I/O	24 digital inputs, 24 V $\overline{\text{---}}$, Sink, 1-wire	18 transistor digital outputs, 24 V $\overline{\text{---}}$, Source, 0.5 A, 2-wire	TM5C24D18T	0.037/ 0.082
TM5 I/O digital/analogue compact blocks				
24 I/O	12 digital inputs, 24 V $\overline{\text{---}}$, Sink, 2-wire 4 analogue inputs - 10...+ 10 V, 0...20 mA, 4...20 mA, resolution 12 bits	6 transistor digital outputs, 2-wire, 24 V $\overline{\text{---}}$, Source, 0.5 A 2 analogue outputs, - 10...+ 10 V, 0...20 mA, resolution 12 bits	TM5C12D6T6L	0.037/ 0.082
TM5 I/O analogue compact blocks				
16 I/O	8 analogue voltage inputs - 10...+ 10 Vdc Resolution 11 bits + sign	8 analogue voltage outputs - 10...+ 10 Vdc Resolution 11 bits + sign	TM5CAI8O8VL	0.037/ 0.082
	8 analogue current inputs 0...20 mA/4...20 mA Resolution 12 bits	8 analogue current outputs 0...20 mA Resolution 12 bits	TM5CAI8O8CL	0.037/ 0.082
	8 analogue inputs: □ 4 voltage inputs - 10...+ 10 Vdc □ 4 current inputs 0...20 mA/4...20 mA Resolution □ voltage: 11 bits + sign □ current : 12 bits	8 analogue outputs: □ 4 voltage outputs - 10...+ 10 Vdc □ + 4 current outputs 0...20 mA Resolution □ voltage: 11 bits + sign □ current : 12 bits	TM5CAI8O8CVL	0.037/ 0.082
Terminal blocks				
Use	Description	Sold in lots of	Unit reference	Weight kg lb
For I/O compact blocks, 24 V $\overline{\text{---}}$ power supply	12 spring terminals	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	0.200/ 0.441
Accessories				
See page 26				

(1) Source output: PNP output, sink output: NPN output.

Modicon TM5 Expansion modules

Modicon TM5 Digital modules and Modicon TM5 Digital/Analog module for Modicon M258 logic controller and Modicon LMC058 motion controller

Applications Type of expansion module

Compatibility

2 to 16 digital input channels

Modicon M258 logic controller, Modicon LMC058 motion controller



Channel connection

Digital inputs

Number

Nominal input voltage

IEC/EN 61131-2 conformity

Type of signal (1)

Type of wiring

Limit values

Nominal input current

Input impedance

State 0

State 1

With removable spring terminal blocks (to be ordered separately)

2	4	6	12	16	2	4	6
24 V $\overline{\text{DC}}$					100/240 V $\sim$		
Type 1					Type 1		
Sink					—		
1-, 2- or 3-wire		1 or 2-wire	1-wire		1-, 2- or 3-wire	1 or 2-wire	
$\overline{\text{DC}}$ 20.4... 28.8 V					$\sim$ 100... 240 V		
3.75 mA				2.68 mA	5 mA at $\sim$ 100 V 11 mA at $\sim$ 240 V		10 mA at $\sim$ 120 V
6.4 k Ω				8.9 k Ω	—		
$\overline{\text{DC}}$ 5 V max.					—		
$\overline{\text{DC}}$ 15 V min.					—		

Digital outputs

Number

Nominal output voltage

Output current per channel

Output current per group of channels

Type of signal (1)

Type of wiring

Limit values

Short-circuit and overload protection

Analog inputs

Number

Type

Range

Resolution

Sampling period without filtering
with filtering

Analog outputs

Number

Type

Range

Resolution

Response time

Type of electronic expansion module

TM5 SDI2D	TM5 SDI4D	TM5 SDI6D	TM5 SDI12D	TM5 SDI16D	TM5 SDI2A	TM5 SDI4A	TM5 SDI6U
-----------	-----------	-----------	------------	------------	-----------	-----------	-----------

Associated bus base (2)

TM5ACBM11, TM5ACBM15

TM5ACBM12

Associated terminal block (2)

TM5ACTB06, TM5ACTB12

TM5 ACTB12

TM5 ACTB16

TM5ACTB32

Pages

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(1) Source output: PNP output, sink output: NPN output.
(2) to be ordered separately.



4 digital input channels and 1 analog input channel 2 digital output channels and 1 analog output channel	8 digital input channels 4 transistor output channels	2 to 16 transistor output channels	2 transistor output channels	2 to 4 relay output channels
--	--	------------------------------------	------------------------------	------------------------------

Modicon M258 logic controller, Modicon LMC058 motion controller



With removable spring terminal blocks (to be ordered separately)

4	8
24 V $\sim$	24 V $\sim$
Type 1	Type 1
Sink	Sink
1-wire	1-wire
$\sim$ 20.4...28.8 V	$\sim$ 20.4...28.8 V
3.3 mA	3.75 mA
7.2 k Ω	6.4 k Ω
$\sim$ 5 V max.	$\sim$ 5 V max.
$\sim$ 15 V min.	$\sim$ 15 V min.

2	4	2	4	4	6	8	12	16	2	2	4
24 V $\sim$	24 V $\sim$	24 V $\sim$							100/240 V $\sim$	$\sim$ 30/ $\sim$ 230 V	
0.5 A	0.5 A	0.5 A	0.5 A	2 A	0.5 A	2 A	0.5 A		1 A	5 A	
1 A max.	2 A max.	1 A max.	2 A max.	4 A max.	3 A max.	8 A max.	6 A max.		1 A	10 A max.	
Source	Source	Source							Solid state relay	Relay	
1-wire	1-wire	1-, 2- or 3-wire			1 or 2-wire	1-wire			3-wire	NO/NC contact	
$\sim$ 20,4...28.8 V	$\sim$ 20.4...28.8 V	$\sim$ 20.4...28.8 V							$\sim$ 80...264 V	$\sim$ 24...36 V $\sim$ 184...276 V	
Yes	Yes	Yes							Yes	No	

1
Voltage/current
- 10...+ 10 Vdc
0...20 mA/4...20 mA
12 bits + sign
400 ms
1 ms max.

1
Voltage/current
- 10...+ 10 Vdc
0...20 mA
12 bits
1 ms max.

TM5 SMM6D2L	TM5 SDM12DT	TM5 SDO2T	TM5S DO4T	TM5 SDO4TA	TM5 SDO6T	TM5 SDO8TA	TM5 SDO12T	TM5 SDO16T	TM5 SDO2S	TM5 SDO2R	TM5 SDO4R TM5 SDO4R4
-------------	-------------	-----------	-----------	------------	-----------	------------	------------	------------	-----------	-----------	-------------------------

TM5ACBM11, TM5ACBM15	TM5ACBM12
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TM5ACTB12	TM5ACTB06, TM5ACTB12	TM5ACTB12	TM5 ACTB16	TM5ACTB32
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9	11
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More technical information on www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 Digital modules and Modicon TM5 Digital/Analog module for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

The **TM5S●●●●** digital module offer consists of:

- Thirteen input, mixed I/O and output electronic modules (sensor and preactuator 24 V $\square$ power supply): **TM5SD●●●●**
- One Digital/Analog mixed I/O electronic module: **TM5SMM6D2L**.

They complement the embedded I/O in the various M258 logic controllers and LMC058 motion controllers. They are used to adapt to the application requirements as closely as possible to reduce the installation and wiring costs.

Each digital expansion module consists of three parts to be ordered separately (1):

- ☐ An I/O electronic module
- ☐ A bus base
- ☐ A terminal block

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

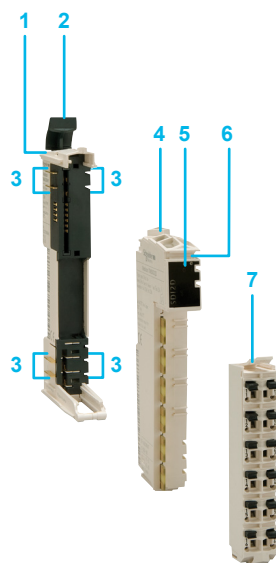
- ☐ Removable terminal
- ☐ Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening
- ☐ Hot swapping

The digital modules offer includes:

- Five 24 V $\square$ digital input modules with 2, 4, 6, 12 or 16 sink inputs
- One 24 V $\square$ digital mixed I/O electronic module, with 8 sink inputs and 4 source transistor outputs
- Seven digital output output electronic modules with 2, 4, 6, 12 or 16 source transistor outputs

The digital/analog module offer includes:

- one mixed I/O electronic module with four 24 V $\square$ digital inputs and one voltage/current analog input, two 24 V digital outputs and one voltage/current analog output.



Description

TM5SD●●●● digital modules and digital/analog **TM5SMM6D2L** module comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A digital input, I/O or output electronic module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

(1) Also sold in kits, see page 27

Modicon TM5 Expansion modules

Modicon TM5 Digital modules and Modicon TM5 Digital/Analog module for Modicon M258 logic controller and Modicon LMC058 motion controller



TM5SD●●●



TM5SMM6D2L



TM5ACBM●●



TM5ACTB●●

References					
Digital input electronic modules					
Voltage	Number and type of channels (1)		Reference	Weight kg/ lb	
24 V  inputs	2 sink inputs		TM5SDI2D	0.025/ 0.055	
	4 sink inputs		TM5SDI4D	0.025/ 0.055	
	6 sink inputs		TM5SDI6D	0.025/ 0.055	
	12 sink inputs		TM5SDI12D	0.025/ 0.055	
	16 sink inputs		TM5SDI16D ▲	0.025/ 0.055	
Digital mixed inputs/outputs electronic module					
24 V  inputs/outputs	8 sink inputs, 4 source transistor outputs		TM5SDM12DT	0.025/ 0.055	
Digital output electronic modules					
24 V  outputs	2 source transistor outputs	0.5 A per channel	TM5SDO2T	0.025/ 0.055	
	4 source transistor outputs	0.5 A per channel	TM5SDO4T	0.025/ 0.055	
	4 source transistor outputs	2 A per channel, 4 A per module	TM5SDO4TA	0.025/ 0.055	
	6 source transistor outputs	0.5 A per channel	TM5SDO6T	0.025/ 0.055	
	8 source transistor outputs	2 A per channel	TM5SDO8TA	0.025/ 0.055	
	12 source transistor outputs	0.5 A per channel	TM5SDO12T	0.025/ 0.055	
	16 source transistor outputs	0.5 A per channel	TM5SDO16T ▲	0.025/ 0.055	
Digital/Analog mixed inputs/outputs electronic module					
24 V  inputs/outputs	4 sink digital inputs	–	TM5SMM6D2L	0.025/ 0.055	
	1 analog input	- 10...+ 10Vdc, 0...20 mA/4...20 mA			
	2 source transistor outputs	0.5 A per channel			
	1 analog output	0...20 mA			
Bus bases					
Power supply	Characteristics		Sold in lots of	Unit reference	Weight kg/ lb
24 V 	–		1	TM5ACBM11	0.020/ 0.044
			10	TM5ACBM1110	0.200/ 0.441
	Address setting		1	TM5ACBM15	0.020/ 0.044
			10	TM5ACBM1510	0.200/ 0.441
Terminal blocks					
Use	Description		Sold in lots of	Unit reference	Weight kg/ lb
For electronic modules, 24 V  power supply	6 contacts		1	TM5ACTB06	0.016/ 0.035
			10	TM5ACTB0610	0.160/ 0.305
	12 contacts		1	TM5ACTB12	0.020/ 0.044
			10	TM5ACTB1210	0.200/ 0.441
	16 contacts		1	TM5ACTB16 ▲	0.020/ 0.044

(1) Source output: PNP output, sink output: NPN output.

▲ Available: 2nd quarter 2014.

Modicon TM5 Expansion modules

Modicon TM5 Digital modules

for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

The **TM5SD●●●** digital module offer consists of six input and output electronic modules (sensor and preactuator 100/240 V ~ power supply). They complement the embedded I/O in the various M258 controllers and LMC058 motion controllers. They are used to adapt to the application requirements as closely as possible to reduce the installation and wiring costs.

Each digital module consists of three parts to be ordered separately (1):

- ☐ An I/O electronic module
- ☐ A bus base
- ☐ A terminal block

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

- ☐ Removable terminal
- ☐ Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening
- ☐ Hot swapping

The digital modules offer includes:

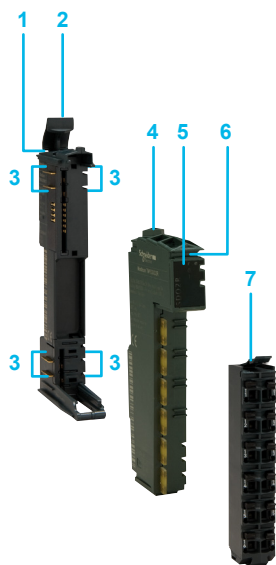
- Two 100/240 V ~ digital input electronic modules, with 2 or 4 inputs
- A 100/120 V ~ digital input electronic module, with 6 inputs
- A 100/240 V ~ digital output electronic modules, with 2 outputs
- Two 30 V ~/230 V ~ digital output electronic modules, with 2 or 4 relay outputs

Description

TM5SD●●● digital modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A digital input or output electronic module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

(1) Also sold in kit, see page 27



Modicon TM5 Expansion modules

Modicon TM5 Digital modules
for Modicon M258 logic controller and Modicon LMC058
motion controller



TM5SDI●●



TM5SDO●●



TM5ACBM●●



TM5ACTB●●

References

Multivoltage digital input electronic modules

Voltage	Number and type of channels (1)	Sold in lots of	Unit reference	Weight kg/ lb
100/240 V ~ inputs	2 inputs	1	TM5SDI2A	0.025/ 0.055
	4 inputs	1	TM5SDI4A	0.025/ 0.055
100/120 V ~ inputs	6 inputs	1	TM5SDI6U	0.025/ 0.055

Digital output electronic modules

100/240 V ~ outputs	2 x 1 A transistor outputs	1	TM5SDO2S	0.025/ 0.055
30 V ---/230 V ~ outputs	2 x 5 A relay outputs, NO/NC contact	1	TM5SDO2R	0.025/ 0.055
	4 x 5 A relay outputs, NO/NC contact	1	TM5SDO4R	0.025/ 0.055
		4	TM5SDO4R4	0.100/ 0.220

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
~ 240 V	—	1	TM5ACBM12	0.020/ 0.044
		10	TM5ACBM1210	0.200/ 0.440

Terminal blocks

Use	Description	Sold in lots of	Unit reference	Weight kg/ lb
For digital I/O electronic module, 240 V ~ power supply	12 contacts	1	TM5ACTB32	0.025/ 0.055
		10	TM5ACTB3210	0.250/ 0.550

Accessories

See page 26

Digital I/O expansion module kit

See page 27

(1) Source output: PNP output, sink output: NPN output.

Modicon TM5 Expansion modules

Modicon TM5 common distribution modules for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

TM5SP●●● common distribution modules make cabling more flexible by “branching” the various voltages needed to power the I/O expansion modules used.

Each common distribution module consists of three parts to be ordered separately:

- ☐ A common distribution electronic module
- ☐ A bus base
- ☐ A terminal block to be chosen according to the number of terminals

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

- ☐ Removable terminal
- ☐ Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening
- ☐ Hot swapping

The power supply common modules offer includes four common distribution electronic modules which have a removable fuse.

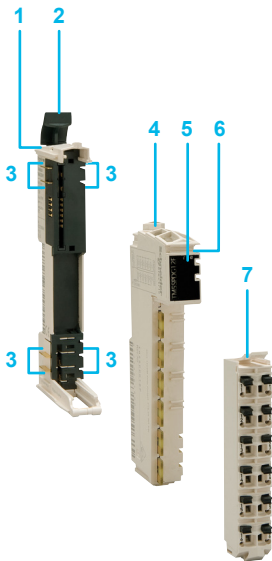
This offer is completed by a non-functioning dummy module **TM5SD000** which can be used to:

- ☐ Increase the flexibility in managing the various options for an installation: machine with or without temperature sensors for example.
- ☐ Reserve a physical slot and a logical address on the backplane bus, for adding a functioning module at a later date: application-specific I/O expansion for example.

Description

TM5SP●●● common distribution modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A common distribution electronic module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers



Modicon TM5 Expansion modules

Modicon TM5 common distribution modules
for Modicon M258 logic controller and Modicon LMC058
motion controller



TM5SPDG●●●



TM5ACBM●●



TM5ACTB●●

References

Common distribution electronic modules (1)

Power supply type	Characteristics	Reference	Weight kg/ lb
24 V $\overline{\text{---}}$	12 common x 0 Vdc with 1 fuse	TM5SPDG12F	0.025/ 0.055
	12 common x 24 Vdc with 1 fuse	TM5SPDD12F	0.025/ 0.055
	5 common x 0 Vdc 5 common x 24 Vdc with 1 fuse	TM5SPDG5D4F	0.025/ 0.055
	6 common x 0 Vdc 6 common x 24 Vdc with 1 fuse	TM5SPDG6D6F	0.025/ 0.055

Dummy electronic module

Characteristics	Used for	Reference	Weight kg/ lb
Non-functioning	Reservation of slots and logical address	TM5SD000	0.015/ 0.033

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
24 V $\overline{\text{---}}$	—	1	TM5ACBM11	0.020/ 0.044
		10	TM5ACBM1110	0.200/ 0.440
	Address setting	1	TM5ACBM15	0.020/ 0.044
		10	TM5ACBM1510	0.200/ 0.440

Terminal blocks

Use	Description	Sold in lots of	Unit reference	Weight kg/ lb
For common distribution electronic module, 24 V $\overline{\text{---}}$ power supply	6 contacts	1	TM5ACTB06	0.016/ 0.035
		10	TM5ACTB0610	0.160/ 0.350
	12 contacts	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	0.200/ 0.440

Accessories

See page 26

(1) Equipped with 5 x 20 internal fuse, slow-blow 6.3 A

Modicon TM5 Expansion modules

Modicon TM5 Analog modules and Modicon TM5 Digital/Analog module for Modicon M258 logic controller and Modicon LMC058 motion controller

Applications	Type of expansion module
	Compatibility

Channel connection	
Analog inputs	Number
	Type
	Range
	Resolution
	Sampling period
	without filtering
	with filtering

Analog outputs	Number
	Type
	Range
	Resolution
	Response time

Digital inputs	Number
	Nominal input voltage
	IEC/EN 61131-2 conformity
	Type of signal (1)
	Type of wiring
	Limit values
	Nominal input current
	Input impedance
	State 0
	State 1

Digital outputs	Number
	Nominal output voltage
	Output current per channel
	Output current per group of channels
	Type of signal (1)
	Type of wiring
	Limit values
	Short-circuit and overload protection

Power supply	
---------------------	--

Isolation	Channel-to-channel
	Between channel groups
	Channel-to-bus

Type of electronic module	
----------------------------------	--

Associated bus base (2)	
--------------------------------	--

Associated terminal block (2)	
--------------------------------------	--

Page	
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(1) Source output: PNP output, sink output: NPN output.
(2) to be ordered separately.

1 to 6 analog input channels

Modicon M258 logic controller, Modicon LMC058 motion controller



With removable spring terminal blocks (to be ordered separately)					
2	2	4	4	2	4
Voltage/current				Pt100/Pt1000 temperature probe	
- 10...+ 10 Vdc 0...20 mA/ 4...20 mA	- 10...+ 10 Vdc 0...20 mA	- 10...+ 10 Vdc 0...20 mA/ 4...20 mA	- 10...+ 10 Vdc 0...20 mA	- 200...+ 850°C	
12 bits + sign	15 bits + sign	12 bits + sign	15 bits + sign	16 bits	
300 µs	—	400 µs	—	—	
1 ms	50 µs	1 ms	50 µs	—	

Internal					
Non-isolated					
—					
~ 500 V RMS					
TM5SAI2L	TM5SAI2H	TM5SAI4L	TM5SAI4H	TM5SAI2PH	TM5SAI4PH
TM5ACBM11, TM5ACBM15					
TM5ACTB06, TM5ACTB12		TM5ACTB12		TM5ACTB06, TM5ACTB12	TM5ACTB12

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More technical information on www.schneider-electric.com

1 analog input channel
and 4 digital input
channels
1 analog input channel
and 2 digital output
channels

2 to 4 analog output channels



With removable spring terminal blocks (to be ordered separately)

2	6	1	1
J, K, S, N thermocouple		Full bridge Strain Gauge	Voltage/current
Type J: - 210...+ 1200°C Type K: - 270...+ 1372°C Type S: - 50...+ 1768°C Type N: - 270...+ 1300°C		Differential: 85...5000 Ω	- 10...+ 10 Vdc 0...20 mA/4...20 mA
16 bits		24 bits	12 bits + sign
–		–	400 ms
–		–	1 ms max.

1	2	2	4	4
Voltage/current	Voltage/current			
- 10...+ 10 Vdc 0...20 mA	- 10...+ 10 Vdc 0...20 mA			
12 bits	12 bits + sign	15 bits + sign	12 bits + sign	15 bits + sign
1 ms maxi	1 ms max.			

4
24 V ---
Type 1
Sink
1-wire
--- 20.4... 28.8 V
3.3 mA
7.2 kΩ
--- 5 V max.
--- 15 V min.

2
24 V ---
0.5 A
1 A max.
Source
1-wire
--- 20.4... 28.8 V
Yes

Internal	Internal	Internal	Internal
Non-isolated	Non-isolated	Non-isolated	Non-isolated
–	–	–	–
~ 500 V RMS	~ 500 V RMS	~ 500 V RMS	~ 500 V RMS

TM5SAI2TH	TM5SAI6TH	TM5SEAISG	TM5SMM6D2L	TM5SAO2L	TM5SAO2H	TM5SAO4L	TM5SAO4H
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TM5ACBM11, TM5ACBM15

TM5ACTB06, TM5ACTB12	TM5ACTB12	TM5ACTB06, TM5ACTB12	TM5ACTB12
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17	9	17
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More technical information on www.schneider-electric.com

Presentation

TM5SAI●●● and **TM5SEIAISG** analog modules are used to acquire various analog values encountered in industrial applications.

TM5SAO●●● Analog output modules are used to control preactuators in physical units, such as variable speed drives or valves and applications where process control is required. The output current or voltage is proportional to the numerical value defined by the user program.

On a controller "stop", the outputs can be configured with fallback (set to the bottom scale value or held at their value). This function, with holding the value, is used when debugging the application or on a fault so as not to disturb the controlled process.

Each analog module consists of three parts to be ordered separately (1):

- An I/O electronic module
- A bus base
- A terminal block

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

- Removable terminal
- Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening
- Hot swapping

The offer of 13 analog modules:

- Four electronic modules with 2 or 4 voltage/current inputs
- Two electronic modules with 2 or 4 Pt100/Pt1000 temperature probes
- Two electronic modules with 2 or 6 J, K, S and N thermocouple inputs
- One electronic module with 1 Full-bridge strain gauge input
- Four electronic modules with 2 or 4 voltage/current outputs

Depending on the application requirements, these electronic modules are available in 12, 16 or 24 bit-resolution.

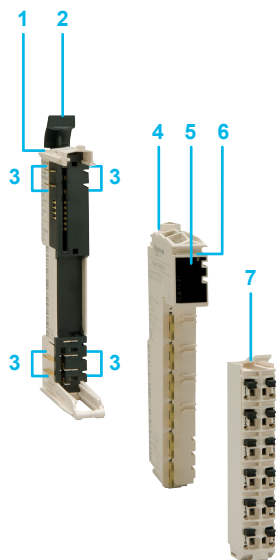
It is advisable to use the **TM2XMTGB** earthing plate which simplifies connection of the analog sensor and actuator cable shielding. This shielding must be connected to the device's functional earth.

Description

Analog modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 An analog input or output electronic module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

(1) Also sold in kits, see page 27



Modicon TM5 Expansion modules

Modicon TM5 Analog modules

for Modicon M258 logic controller and Modicon LMC058 motion controller



TM5SAI●●



TM5SAO●●



TM5ACBM●●



TM5ACTB●●



TM2XMTGB



TM200RSRCMC

References

Analog input electronic modules

Number and type of inputs	Input range	Resolution	Reference	Weight kg/ lb
2 voltage/current inputs	- 10...+ 10 V DC, 0...20 mA/4...20 mA	12 bits + sign	TM5SAI2L	0.025/ 0.055
	- 10...+ 10 V DC, 0...20 mA	15 bits + sign	TM5SAI2H	
4 voltage/current inputs	- 10...+ 10 Vdc, 0...20 mA/ 4...20 mA	12 bits + sign	TM5SAI4L	
	- 10...+ 10 V DC, 0...20 mA	15 bits + sign	TM5SAI4H	
2 Pt100/Pt1000 temperature probe inputs	- 200...+ 850°C	16 bits	TM5SAI2PH	
4 Pt100/Pt1000 temperature probe inputs		16 bits	TM5SAI4PH	
2 J, K, S, N thermocouple inputs	Type J: - 210...+ 1200°C	16 bits	TM5SAI2TH	
6 J, K, S, N thermocouple inputs	Type K: - 270...+ 1372°C	16 bits	TM5SAI6TH	
	Type S: - 50...+ 1768°C			
	Type N: - 270...+ 1300°C			
1 Full bridge strain gauge input	Differential: 85...5000 Ω	24 bits	TM5SEAISG	

Analog output electronic modules

Nber and type of O	Output range	Resolution	Reference	Weight kg/ lb
2 voltage/current outputs	- 10...+ 10 V DC, 0...20 mA	12 bits + sign	TM5SAO2L	0.025/ 0.055
		15 bits + sign	TM5SAO2H	
4 voltage/current outputs	- 10...+ 10 V DC, 0...20 mA	12 bits + sign	TM5SAO4L	
		15 bits + sign	TM5SAO4H	

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
24 V $\overline{\text{---}}$	—	1	TM5ACBM11	0.020/ 0.044
		10	TM5ACBM1110	0.200/ 0.440
	Address setting	1	TM5ACBM15	0.020/ 0.044
		10	TM5ACBM1510	0.200/ 0.440

Terminal blocks

Use	Type	Sold in lots of	Unit reference	Weight kg/ lb
For analog I/O electronic module, 24 V $\overline{\text{---}}$ power supply	6 contacts	1	TM5ACTB06	0.016/ 0.035
		10	TM5ACTB0610	0.160/ 0.350
	12 contacts	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	0.200/ 0.440

Accessories

See page 26

Separate parts

Designation	Description	Unit reference	Weight kg/ lb
Earthing plate	Support equipped with 10 male Faston connectors for connecting the cable shielding (via 6.35 mm connectors, not supplied) and the functional earths (FE)	TM2XMTGB	0.045/ 0.099
Shielding connection clamps <i>Sold in lots of 25</i>	Attachment and earthing of the cable shielding. Pack of 25 clamps including 20 for Ø 4.8 mm cable and 5 for Ø 7.9 mm cable	TM200RSRCMC	—
Mounting kit (<i>Sold in lots of 5</i>)	For mounting the analog modules on a plate or panel	TWDXMT5	0.065/ 0.143

Analog I/O expansion module kits

See page 27

Modicon TM5 Expansion modules

Modicon TM5 Expert modules
for Modicon M258 logic controller
and Modicon LMC058 motion controller

Applications	Upcounting, downcounting, period measurement, frequency meter, frequency generator, axis following with encoder	
Compatibility	Modicon M258 logic controller, Modicon LMC058 motion controller	
		
Channel connection	With removable spring terminal blocks (to be ordered separately)	
Number of counter channels	2	1
IEC/EN 61131-2 conformity	Type 1	Incremental
Type of signal (1)	Sink	Sink
Type of input	1-, 2- or 3-wire	–
Nominal input voltage	24 V $\overline{\text{---}}$	24 V $\overline{\text{---}}$ asymmetrical
Voltage limit values	20.4... 28.8 V $\overline{\text{---}}$	–
Frequency per channel	50 kHz	100 kHz
Resolution	–	16/32 bits
Functions	Event counting Interval measurement	2 x 24 V $\overline{\text{---}}$ auxiliary inputs 24 V $\overline{\text{---}}$ encoder power supply
Types of counter module	TM5SDI2DF	TM5SE1IC01024
Compatible bus base (2)	TM5ACBM11, TM5ACBM15	
Compatible terminal block (2)	TM5ACTB12	
Page	21	

(1) Source output: PNP output, sink output: NPN output.

(2) To be ordered separately.



Upcounting, downcounting, period measurement, frequency meter, frequency generator, axis following with encoder

Modicon M258 logic controller, Modicon LMC058 motion controller



With removable spring terminal blocks (to be ordered separately)

2	1	1
Incremental	Incremental	SSI absolute
Sink	RS422, Sink	Sink
–	–	–
24 V $\overline{\text{---}}$ asymmetrical	5 V $\overline{\text{---}}$ symmetrical	5 V $\overline{\text{---}}$ symmetrical
–	20.4... 28.8 V $\overline{\text{---}}$	20.4... 28.8 V $\overline{\text{---}}$
100 kHz	250 kHz	1 MHz
16/32 bits	16/32 bits	32 bits
2 x 24 V $\overline{\text{---}}$ auxiliary inputs 24 V $\overline{\text{---}}$ encoder power supply	2 x 24 V $\overline{\text{---}}$ auxiliary inputs	2 x 24 V $\overline{\text{---}}$ auxiliary inputs
TM5SE2IC01024	TM5SE1IC02505	TM5SE1SC10005

TM5ACBM11, TM5ACBM15

TM5ACTB12

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More technical information on www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 Expert modules

for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

TM5SDI12DF and **TM5SE●●●●●●●●** Expert modules for Modicon M258 logic controller and LMC058 motion controllers are used to count the pulses generated by a sensor or to process the signals from an incremental encoder, depending on the reference chosen.

The extent of the high-speed counter module offer makes it possible to adapt the configuration to the machine's precise requirements: the five counter modules differ in their frequency and their functions.

Expert electronic modules	No. of channels	Max. frequency	Integrated functions	Signal
TM5SDI12DF	2	50 kHz	Event counting, interval measurement	Sink
TM5SE1IC01024	1	100 kHz	2 x 24 V ∓ auxiliary inputs 24 V ∓ encoder power supply	Sink
TM5SE2IC01024	2	100 kHz	2 x 24 V ∓ auxiliary inputs 24 V ∓ encoder power supply	Sink
TM5SE1IC02505	1	250 kHz	2 x 24 V ∓ auxiliary inputs ∓ 5 V encoder power supply	Sink
TM5SE1SC10005	1	1 MHz	2 x 24 V ∓ auxiliary inputs ∓ 5 V SSI encoder power supply	Sink

The function parameters are set by configuration using SoMachine software.

Each Expert module consists of three parts to be ordered separately:

- ☐ An electronic counter module
- ☐ A bus base
- ☐ A terminal block

These modules can be mechanically assembled before mounting on a symmetrical rail.

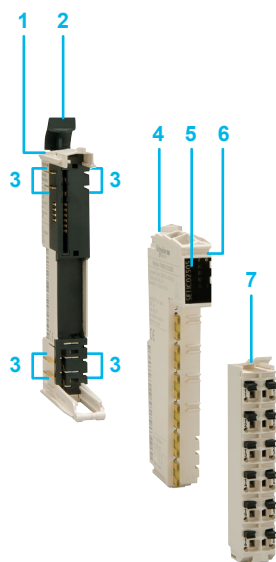
These modules offer the following advantages:

- ☐ Removable terminal
- ☐ Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening
- ☐ Hot swapping

Description

TM5 Expert modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 An electronic counter module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers



Modicon TM5 Expansion modules

Modicon TM5 Expert modules
for Modicon M258 logic controller and Modicon LMC058
motion controller



TM5SDI2DF



TM5SE●●●●●●●●



TM5ACBM●●



TM5ACTB●●

References

Expert electronic modules

Counting frequency	Number of channels	Function	Reference	Weight kg/ lb
50 kHz	2	Event counting, interval measurement	TM5SDI2DF	0.025/ 0.055
100 kHz	1	2 x 24 V --- auxiliary inputs 24 V --- encoder power supply	TM5SE1IC01024	0.025/ 0.055
	2	2 x 24 V --- auxiliary inputs 24 V --- encoder power supply	TM5SE2IC01024	0.025/ 0.055
250 kHz	1	2 x 24 V --- auxiliary inputs	TM5SE1IC02505	0.025/ 0.055
1 MHz	1	2 x 24 V --- auxiliary inputs	TM5SE1SC10005	0.025/ 0.055

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
24 V ---	—	1	TM5ACBM11	0.020/ 0.044
		10	TM5ACBM1110	0.200/ 0.440
	Address setting	1	TM5ACBM15	0.020/ 0.044
		10	TM5ACBM1510	0.200/ 0.440

Terminal blocks

Use	Description	Sold in lots of	Unit reference	Weight kg/ lb
For electronic counter module powered with 24 V ---	12 contacts	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	0.200/ 0.440

Accessories

See page 26

Modicon TM5 Expansion modules

Modicon TM5 power distribution modules for Modicon M258 logic controller and Modicon LMC058 motion controller

Presentation

TM5SP●● power distribution modules are intended to supply power to the I/O modules and/or the TM5 bus.

Each power distribution module consists of three parts to be ordered separately:

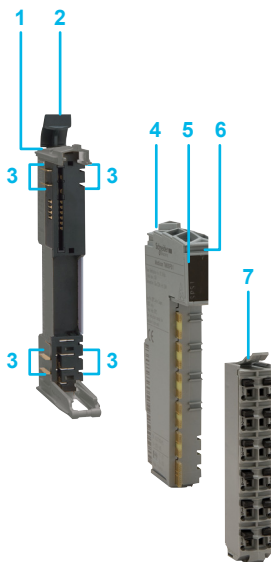
- ☐ A power distribution electronic module
- ☐ A bus base
- ☐ A terminal block

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

- ☐ Removable terminal
- ☐ Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators in addition, the quality of the spring terminals avoids the need for periodic retightening.

Four power distribution modules are available.



Description

Power distribution modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A power distribution electronic module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

Modicon TM5 Expansion modules

Modicon TM5 power distribution modules
for Modicon M258 logic controller and Modicon LMC058
motion controller



TM5SP●●



TM5ACBM●●



TM5ACTB●●

References

Power distribution electronic modules

Input power supply	Used for	Fuse	Reference	Weight kg/ lb
24 V $\overline{\text{---}}$	Supplying power to the I/O modules in 24 V $\overline{\text{---}}$ Total I max: 10 A	–	TM5SPS1	0.030/ 0.066
		6.3 A internal fuse	TM5SPS1F	0.030/ 0.066
	Supplying power □ to the I/O modules in 24 V $\overline{\text{---}}$ □ and the TM5 bus (Bus power supply: 7 W)	–	TM5SPS2	0.030/ 0.066
		6.3 A internal fuse	TM5SPS2F	0.030/ 0.066

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
24 V $\overline{\text{---}}$	Isolated on the left on the power supply to the I/O modules in 24 V $\overline{\text{---}}$	1	TM5ACBM01R	0.020/ 0.044
		10	TM5ACBM01R10	0.200/ 0.440
	Isolated on the left on the power supply to the I/O modules in 24 V $\overline{\text{---}}$ Address setting	1	TM5ACBM05R	0.020/ 0.044
		10	TM5ACBM05R10	0.200/ 0.440

Terminal block

Use	Characteristics	Reference	Weight kg/ lb
For power distribution electronic module 24 V $\overline{\text{---}}$	12 contacts	TM5ACTB12PS	0.020/ 0.044

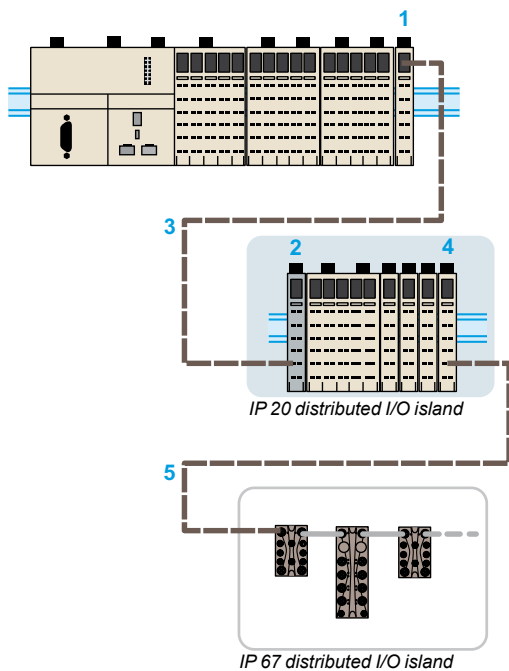
Accessories

See page 26

Modicon TM5 Expansion modules

Modicon TM5 Transmitter and Receiver modules

for Modicon M258 logic controller and Modicon LMC058 motion controller



Presentation

M258 logic controllers and LMC058 motion controllers offer the possibility of creating IP 20 islands of distributed I/O via the TM5 expansion bus.

This makes it possible to:

- Adapt the architecture as closely as possible to the machine topology
- Reduce the wiring costs by minimizing the distance between the modules and the sensors/preactuators
- Take full advantage of the TM5 expansion bus exchange performance
- Save the cost of a fieldbus connection

In addition, irrespective of the expansion module local or remote slot, the modules remain synchronized due to use of the same expansion bus. Modicon TM5 Remote modules are needed to:

- Increase the number of remote I/O on a M258 logic controller and an LMC058 motion controller beyond 100 m
- Exchange incoming and outgoing data produced by the I/O expansion modules
- Guarantee the performance of data exchanges

Three remote modules are available:

- The **TM5SBET1** electronic module: transmitter (1), for data transmission between IP 20 islands
- The **TM5SBET7** electronic module: transmitter (4), for data transmission from an IP 20 island to an IP 67 island (1) via a TM7 expansion bus (5)
- **TM5SBER2** electronic modules: receiver (2)

The transmitter (1) and receiver (2) modules are physically linked by the remote connection cable (3) **TCSXCNNXNX100**.

The maximum distance between islands is 100 m and it is possible to connect up to 25 remote islands.

Each remote module consists of three parts to be ordered separately:

- An electronic module, either transmitter or receiver
- A bus base
- A connection block

These modules can be mechanically assembled before mounting on a symmetrical rail.

These modules offer the following advantages:

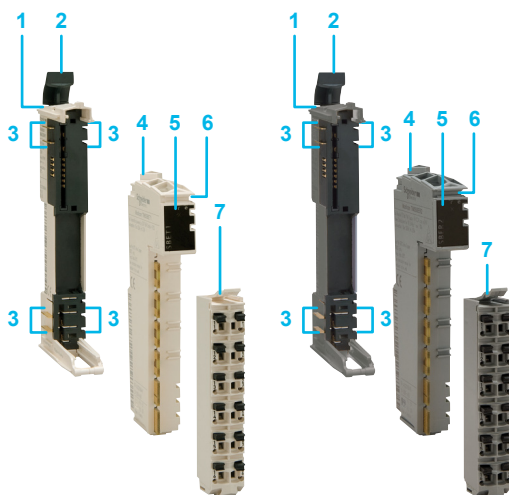
- Removable connector
- Spring terminals which can be used for quick, tool-free connection of the sensors and preactuators. In addition, the quality of the spring terminals avoids the need for periodic retightening

Description

Transmitter and receiver modules comprise:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A remote I/O electronic module, either transmitter or receiver
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

(1) IP 67 islands. Composition: TM7 blocks and TM7 expansion bus, see on our web site www.schneider-electric.com



Transmitter module

Receiver module

Modicon TM5 Expansion modules

Modicon TM5 Transmitter and Receiver modules

for Modicon M258 logic controller and Modicon LMC058 motion controller



TM5SBET1



TM5SBET7



TM5SBER2



TM5ACBM1●



TM5ACBM0●R



TM5ACTB●●



TM5ACTB12PS

References

Remote I/O electronic modules

Description	Characteristics	Reference	Weight kg/ lb
Transmitter module	Electronic module for data transmission between IP 20 I/O islands (1)	TM5SBET1	0.025/ 0.055
	Electronic module for data transmission between IP 20 I/O island and IP 67 I/O island (2)	TM5SBET7	
	Includes the power supply for the TM7 expansion modules (2)		
Receiver module	Data reception electronic module Power distribution module for electronic modules and the TM5 bus, 24 V $\pm$ power supply	TM5SBER2	

Expansion bus

Description	Usage	Length	Reference	Weight kg/ lb
Remote connection cable	Bus extension by linking transmitter and receiver modules	100 m	TCSXCNNXNX100	8.800/ 19.401

Bus bases

Power supply	For use with	Sold in lots of	Unit reference	Weight kg/ lb
—	TM5SBET1 and TM5SBET7 transmitter modules	1	TM5ACBM11	0.020/ 0.044
		10	TM5ACBM1110	0.200/ 0.440
	TM5SBET1 and TM5SBET7 transmitter modules with address setting	1	TM5ACBM15	0.020/ 0.044
		10	TM5ACBM1510	0.200/ 0.440
24 V $\pm$	TM5SBER2 receiver module	1	TM5ACBM01R	0.020/ 0.044
		10	TM5ACBM01R10	0.200/ 0.440
	TM5SBER2 receiver module, with address setting	1	TM5ACBM05R	0.020/ 0.044
		10	TM5ACBM05R10	0.200/ 0.440

Terminal blocks

For use with	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
Transmitter module TM5SBET1	6 contacts	1	TM5ACTB06	0.016/ 0.035
		10	TM5ACTB0610	0.160/ 0.350
Transmitter modules TM5SBET1 and TM5SBET7	12 contacts	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	0.200/ 0.440
Receiver module TM5SBER2	12 contacts	1	TM5ACTB12PS	0.020/ 0.044

Accessories

See page 26

(1) IP 20 I/O islands, see page 30.

(2) IP 67 I/O islands, see on our web site www.schneider-electric.com



TM5ACTCH100



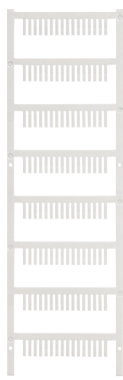
TM5ACTLC100



TM5ACLPL10



TM5ACLPR10



TM5ACLITW1



TM5ACLT1

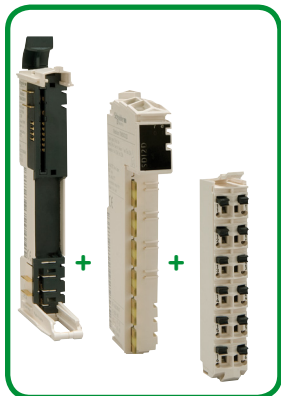


TM5ACADL100

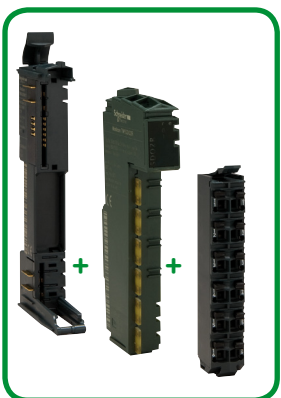
References

Accessories

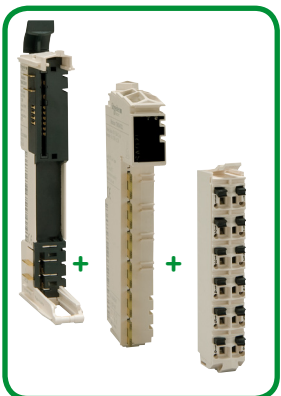
Description	Used for	Colour	Sold in lots of	Unit reference	Weight kg/lb
Plain text cover holder (label-holder)	Marking the terminal blocks on the I/O channels	Transparent	100	TM5ACTCH100	0.002/ 0.004
Plain text cover holder locking clip (Order with plain text cover holder TM5ACTCH100)	Locking plain text cover holder TM5ACTCH100	Transparent	100	TM5ACTLC100	0.001/ 0.002
Precut legend strips of paper	Plain text cover holder TM5ACTCH100	White	100	TM5ACTLS100	0.001/ 0.002
Coloured plastic identifiers	Labelling 16 connection channel terminals	White	1	TM5ACLITW1	0.015/ 0.033
		Red	1	TM5ACLITR1	0.015/ 0.033
		Blue	1	TM5ACLITB1	0.015/ 0.033
Metal tool	Inserting/removing TM5ACLT1 identifiers	Black	1	TM5ACLT1	0.030/ 0.066
Retaining plates for bus bases	Held on the left side	White	10	TM5ACLPL10	0.004/ 0.009
	Held on the right side	White	10	TM5ACLPR10	0.004/ 0.009
Locking clips	For modules	Black	100	TM5ACADL100	0.001/ 0.002



TM5SDI12DK



TM5SDO4RK



TM5SAI4LK

References

Digital I/O expansion module kits

24 V $\overline{\text{---}}$ power supply

Designation	Composition	Reference	Weight kg/ lb
Kit including: a digital input or output electronic module, a bus base, a terminal block	TM5SDI12D + TM5ACBM11 + TM5ACTB12	TM5SDI12DK	0.065/ 0.143
	TM5SDO12T + TM5ACBM11 + TM5ACTB12	TM5SDO12TK	

Digital I/O expansion module kit

100/240 V $\sim$ power supply

Designation	Composition	Reference	Weight kg/ lb
Kit including: a digital output electronic module, a bus base, a terminal block	TM5SDO4R + TM5ACBM12 + TM5ACTB32	TM5SDO4RK	0.070/ 0.154

Analog I/O expansion module kits

Designation	Composition	Reference	Weight kg/ lb
Kits including: an analog input or output electronic module, a bus base, a terminal block	TM5SAI4L + TM5ACBM11 + TM5ACTB12	TM5SAI4LK	0.075/ 0.165
	TM5SAI4H + TM5ACBM11 + TM5ACTB12	TM5SAI4HK	
	TM5SAO4L + TM5ACBM11 + TM5ACTB12	TM5SAO4LK	

Modicon TM5 Expansion modules

Modicon TM5 communication module for RS232 serial link

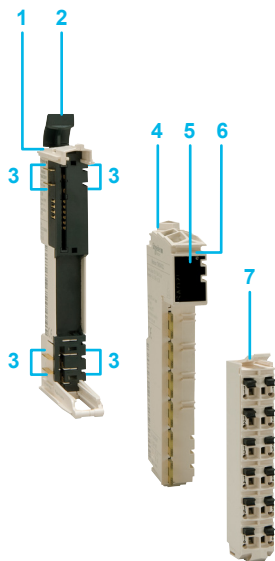
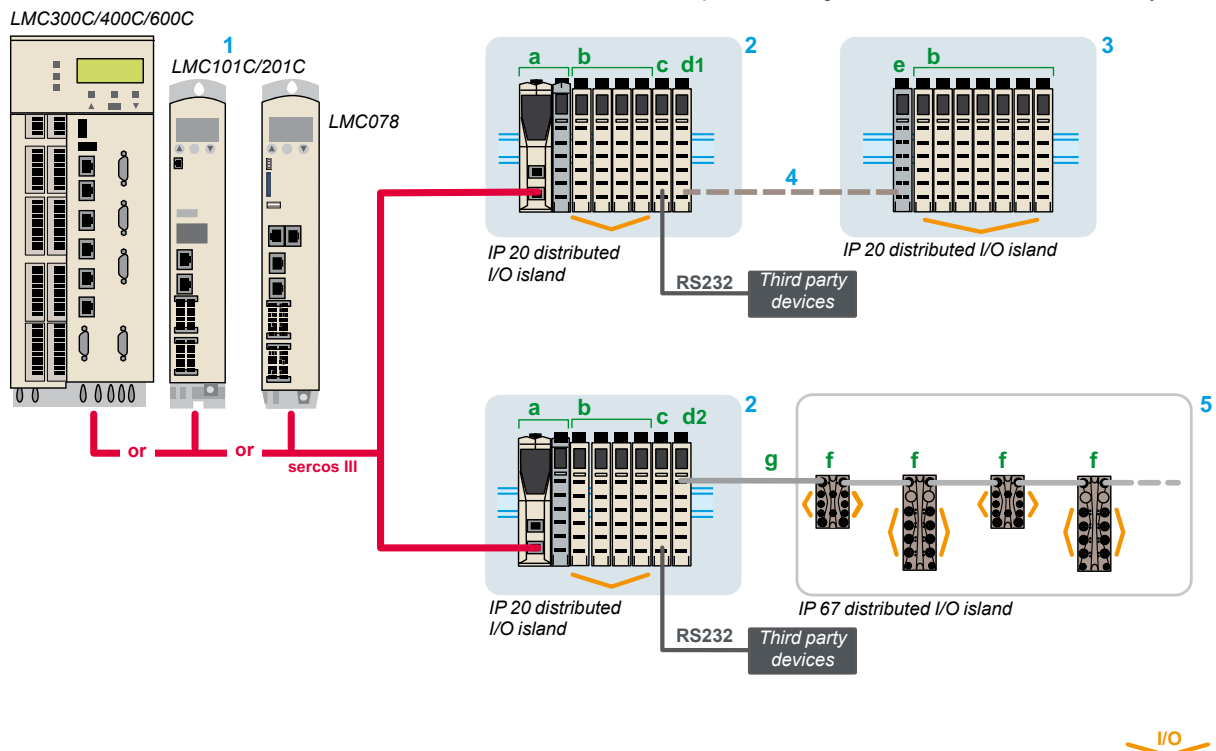
Presentation

Communication module

The **TM5SE1RS2** communication module is designed for PacDrive 3 motion controllers (LMC●01C, LMC●00C) and Modicon LMC078 motion controller. It brings a multiple RS232 ports to connect third party devices to PacDrive 3 motion controllers.

The **TM5SE1RS2** communication module can be integrated in distributed and remote architectures.

SoMachine Motion softwares provide configuration, read and write functionality.



- 1 PacDrive 3/Modicon LMC078 motion controllers: masters on sercos III bus
- 2 IP 20 distributed I/O islands (1). Composition: TM5 interface module (a) + TM5 compact block or I/O modules (b) + TM5 communication module (c) transmitter modules TM5SBET1 (d1)/TM5SBET7 (d2).
- 3 IP 20 distributed I/O island (1). Composition: receiver module TM5SBER2 (e) + TM5 compact block or TM5 I/O modules (b).
- 4 TM5 expansion bus (1). Composition : remote I/O connection cable TCSXCNNXNX100.
- 5 IP 67 distributed I/O island (2). Composition: TM7 IP 67 I/O blocks (digital or analog) (e) + expansion bus cable TM7 TCSXCN●●●E (g).

Description

The **TM5SE1RS2** communication module features:

- 1 A bus base
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 On each side of the base, a bus expansion connection for the link with the previous controller or module
- 4 A RS232 electronic interface module
- 5 A channel and module diagnostics LED display block
- 6 A slot for labelling (label-holder)
- 7 A removable spring terminal block with locking lever and slots for coloured identifiers

(1) Modicon TM5 extension modules: see page 2.

(2) Modicon TM7 I/O blocks: see on our web site www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 communication module for RS232 serial link



TM5SE1RS2



TM5ACTB06



TM5ACBM11



TM5ACTLC100



TM5ACTCH100



TM5ACLPL10



TM5ACLPR10

References

RS232 electronic interface module

Designation	Description	Reference	Weight kg/ lb
RS232 electronic interface module	☐ SoMachine Motion Protocol ☐ Physical layer: RS232 ☐ Speed (Baud rates): 1200 to 115200 Kbits/s ☐ Capacity: 7 or 8 data bits ☐ Services: Low/High/Even, None, Odd parity Bit	TM5SE1RS2	0.064/ 0.141

Bus bases

Power supply	Characteristics	Sold in lots of	Unit reference	Weight kg/ lb
24 V $\overline{\text{---}}$	—	1	TM5ACBM11	0.020/ 0.044
		10	TM5ACBM1110	

Terminal blocks

Use	Type	Sold in lots of	Unit reference	Weight kg/ lb
For RS232 electronic interface module, 24 V $\overline{\text{---}}$ power supply	6 contacts	1	TM5ACTB06	0.016/ 0.035
		10	TM5ACTB0610	
	12 contacts	1	TM5ACTB12	0.020/ 0.044
		10	TM5ACTB1210	

Accessories

Designation	Used for	Colour	Sold in lots of	Unit reference	Weight kg/ lb
Plain text cover holder (label-holder)	Marking the terminal blocks on the I/O channels	Trans-parent	100	TM5ACTCH100	0.002/ 0.004
Plain text cover holder locking clip (Order with plain text cover holder TM5ACTCH100)	Locking plain text cover holder TM5ACTCH100	Trans-parent	100	TM5ACTLC100	0.001/ 0.002
Precut legend strips of paper	Plain text cover holder TM5ACTCH100	White	100	TM5ACTLS100	
Coloured plastic identifiers	Labelling 16 connection channel terminals	White	1	TM5ACLITW1	0.015/ 0.033
		Red	1	TM5ACLITR1	
		Blue	1	TM5ACLITB1	
Metal tool	Inserting/removing TM5ACLIT1 identifiers	Black	1	TM5ACLT1	0.030/ 0.066
Retaining plates for bus bases	Held on the left side	White	10	TM5ACLPL10	0.004/ 0.009
	Held on the right side	White	10	TM5ACLPR10	
Locking clips	For modules	Black	100	TM5ACADL100	0.001/ 0.002

Modicon TM5 Expansion modules

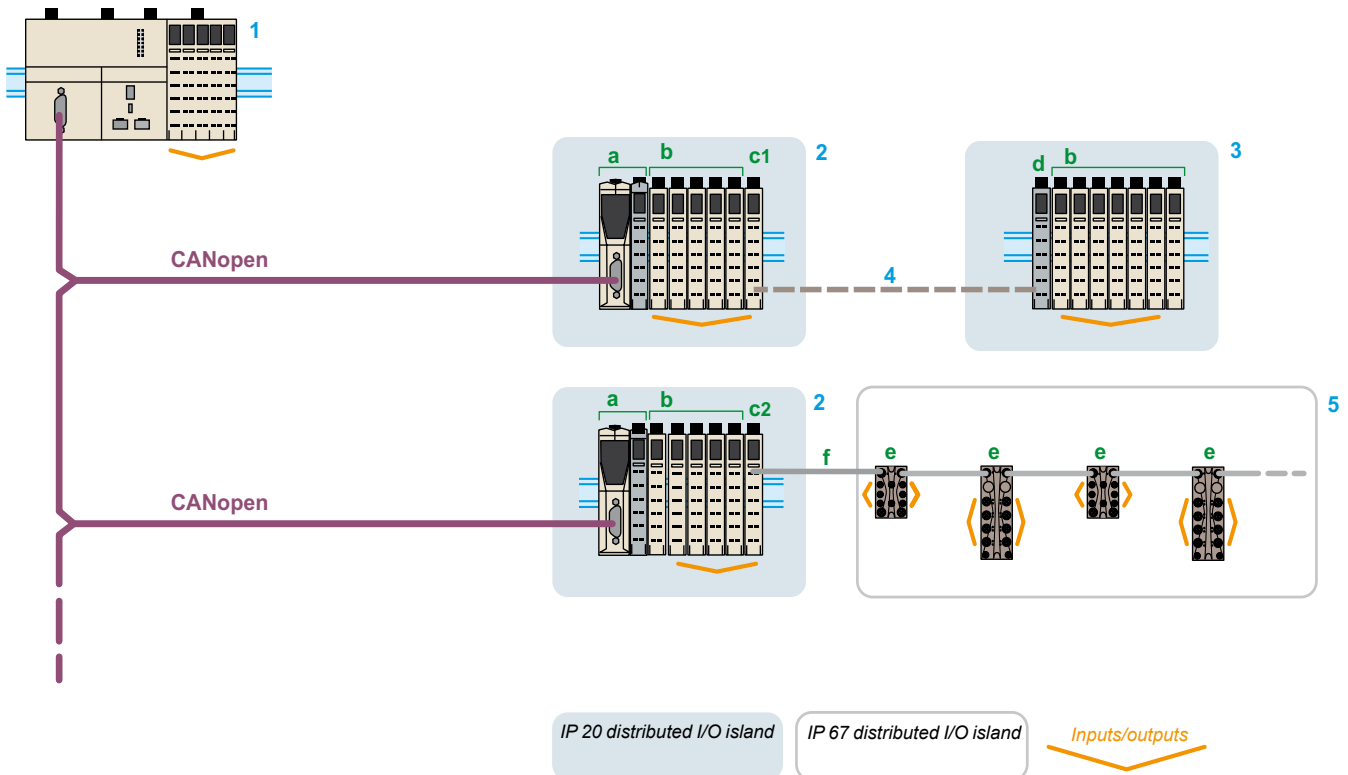
Modicon TM5 (IP 20) interface module for distributed I/O on CANOpen bus
for Modicon M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controllers

Presentation

To enhance its "Flexible machine Control" concept, a key component of MachineStruxure™, the Modicon M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controller offers, Schneider Electric offers a Modicon TM5 CANOpen interface module providing CANOpen access to distributed I/O.

■ M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controllers offer the possibility of creating distributed I/O islands via the TM5 expansion bus, which enables the architecture to be adapted to match the topology of the machine as closely as possible and reduces wiring costs.

■ The Modicon TM5 CANOpen interface module allows the connection of distributed I/O islands (sensors and actuators) that are distributed over machines via the CANOpen fieldbus. These islands communicate on the CANOpen bus.



- 1 Modicon M258 logic controller, Modicon LMC058 or Modicon LMC078 motion controllers: CANOpen bus masters.
- 2 IP 20 distributed I/O islands (1). Composition: TM5 CANOpen interface module (slave) (a) + TM5 compact block or I/O modules (b) + transmitter modules TM5SBET1 (c1)/TM5SBET7 (c2).
- 3 IP 20 distributed I/O island (1). Composition: receiver module TM5SBER2 (d) + TM5 compact block or TM5 I/O modules (b).
- 4 TM5 expansion bus (1). Composition: remote I/O connection cable TCSXCNNXNX100.
- 5 IP 67 distributed I/O island (2). Composition: TM7 IP67 I/O blocks (digital or analog) (e) + expansion bus cable TM7TCSXCN●●●E (f).

(1) Modicon TM5 extension modules: see page 2.

(2) Modicon TM7 I/O blocks and TM7 expansion bus cables: consulter notre site web www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 (IP 20) interface module for distributed I/O on CANopen bus for Modicon M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controllers



Presentation

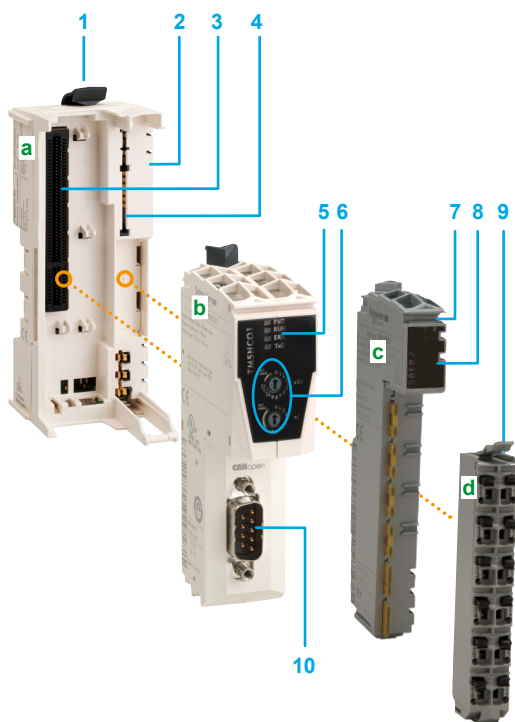
The TM5 CANopen interface module offer consists of 4 parts to be ordered separately (1):

- A bus base, TM5ACBN1 (2)
- A CANopen electronic interface module, TM5NCO1
- A power distribution electronic module, TM5SPS3
- A removable terminal block, TM5ACTB12PS

The modules can be mechanically assembled on the bus base before mounting on a symmetrical rail.

These modules offer the following advantages:

- Removable terminal block
- Spring terminals for connecting the power supply of the interface module and the I/O expansion modules quickly, with no tools required. In addition, the quality of the spring terminals avoids the need for periodic retightening



Description

The CANopen interface module is a combination of 4 products: A TM5ACBN1 bus base (a) + a TM5NCO1 CANopen electronic interface module (b) + a TM5SPS3 power distribution electronic module (c) (1) + a TM5ACTB12PS removable terminal block (d).

This assembly comprises:

- 1 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 2 On the side of the base, an expansion bus connection for the link with the next module
- 3 A slot for the CANopen interface module with connector
- 4 A slot for the power distribution module with connector
- 5 A channel and interface module diagnostics LED display block
- 6 Two rotary selector switches for addresses on the bus
- 7 A slot for labelling (label-holder)
- 8 A channel and power distribution module diagnostics LED display block
- 9 A removable spring terminal block with locking clip and slots for coloured identifiers
- 10 A 9-way male SUB-D connector for connecting to the CANopen bus

(1) Also sold in kit, see page 33

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

Modicon TM5 Expansion modules

Modicon TM5 (IP 20) interface module for distributed I/O on CANopen bus for Modicon M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controllers

Specifications		
Conformity with standards		IEC 61131-2
Product certifications		C€, UL, CSA, GOST-R and c-Tick
Temperature	Operation	Horizontal mounting: - 10...+ 60°C (1) Vertical mounting: - 10...+ 50°C
	Storage	- 40...+ 70°C
Relative humidity		95% max. without condensation
Degree of protection		IP 20 conforming to IEC 61131-2
Degree of pollution		≤ 2 conforming to IEC 60664
Altitude	Operation	0...2000 m
	Storage	0...3000 m
Vibration resistance (mounting on rail)		5...8.4 Hz (3.5 mm fixed amplitude) 8.4...150 Hz (9.8 m/s ² fixed acceleration)
Shock resistance		147 m/s ² (15 gn) for 11 ms
Connector	Type	Removable spring terminals
	Number of operations	50 min.
Electromagnetic compatibility		
Electrostatic discharges conforming to EN/IEC 61000-4-2		8 kV: air discharge 4 kV: direct contact
Electromagnetic fields conforming to EN/IEC 61000-4-3		10 V/m (80 MHz...2 GHz) 1 V/m (2...2.7 GHz)
Fast transients conforming to EN/IEC 61000-4-4		Supply: 2 kV I/O: 1 kV Shielded cable: 1 kV (repetition frequency 5 and 100 kHz)
Immunity to overvoltages, 24 V $\overline{\text{---}}$ circuit conforming to EN/IEC 61000-4-5		1 kV in common mode
		0.5 kV in differential mode
Induced magnetic fields conforming to EN/IEC 61000-4-6		10 Vrms (0.15...80 MHz)
Conducted emissions conforming to EN/IEC 55011/CISPR11		150...500 kHz, quasi-peak at 79 dB μ V
		500 kHz...30 MHz, quasi-peak at 73 dB μ V
Radiated emissions conforming to EN/IEC 55011/CISPR11		30...230 MHz, 10 m @ 40 dB μ V/m
		230 MHz...1 GHz, 10 m @ 47 dB μ V/m

(1) Some devices have an operating temperature which requires a weighting factor between 55° and 60°C and may be subject to other restrictions. Refer to the user guide, which can be downloaded from www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 (IP 20) interface module for distributed I/O on CANopen bus
for Modicon M258 logic controller, Modicon LMC058 and Modicon LMC078 motion controllers



TM5NCO1



TM5SPS3



TM5ACBN1



TM5ACTB12PS



TM5ACTLC100



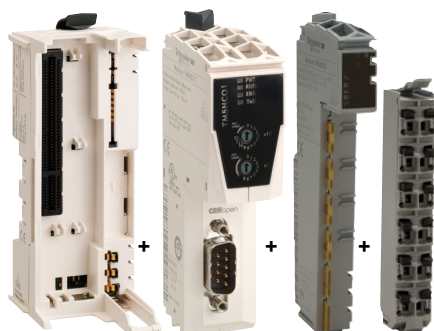
TM5ACTCH100



TM5ACLPL10



TM5ACLPR10



TM5NCO1K

References

CANopen electronic interface module

Description	Characteristics	Reference	Weight kg/ lb
CANopen electronic interface module	CAN bus communication module with CANopen protocol Module colour: white	TM5NCO1	0.025/ 0.055

Power distribution electronic module

Input power supply	Characteristics	Reference	Weight kg/ lb
24 V ~	Power supply for the CANopen bus interface and I/O expansion modules Module colour: grey	TM5SPS3	0.025/ 0.055

Bus base

Power supply	Characteristics	Unit reference	Weight kg/ lb
24 V ~	Use for TM5NCO1 and TM5SPS3 electronic modules Supplied with 2 protective plates TM5ACLPL10 and TM5ACLPR10 Colour of the base: white	TM5ACBN1	0.020/ 0.044

Terminal block

Used for	Characteristics	Unit reference	Weight kg/ lb
Power distribution electronic module TM5SPS3	12 spring terminals Terminal block colour: grey	TM5ACTB12PS	0.016/ 0.035

Accessories

Description	Use for	Colour	Sold in lots of	Unit reference	Weight kg/ lb
Plain text cover holder (label-holder)	Labelling the I/O channel terminal blocks	Transparent	100	TM5ACTCH100	0.200/ 0.441
Terminal block shield locking clip	Locking plain text cover holder TM5ACTCH100 (Order with plain text cover holder TM5ACTCH100)	Transparent	100	TM5ACTLC100	0.100/ 0.220
Precut sheet of paper labels	Plain text cover holder TM5ACTCH100	White	100	TM5ACTLS100	
Coloured plastic identifiers	Labelling 16 connection channel terminals	White	1	TM5ACLITW1	0.015/ 0.033
		Red	1	TM5ACLITR1	
		Blue	1	TM5ACLITB1	
Metal tool	Inserting/removing TM5ACLIT•1 identifiers	Black	1	TM5ACLT1	0.030/ 0.066
Retaining plates for bus bases	Held on the left side	White	10	TM5ACLPL10	0.004/ 0.009
	Held on the right side	White	10	TM5ACLPR10	
Locking clips	For electronic modules	Black	100	TM5ACADL100	0.001/ 0.002

Interface module kit

Description	Composition	Reference	Weight kg/ lb
Kit including a CANopen electronic interface module, a power distribution electronic module, a bus base and a terminal block	TM5NCO1 + TM5SPS3 + TM5ACBN1 + TM5ACTB12PS	TM5NCO1K	0.076/ 0.168

Configuration software

■ SoMachine software, Performance distributed I/O configuration software, please consult our site www.schneider-electric.com

(1) Modicon TM5 Transmitter/Receiver modules (see page 2)

Modicon TM5 Expansion modules

Modicon TM5 Interface module for distributed I/O modules on sercos III bus



sercos III

Fully integrated real time Ethernet based communication

With the addition of sercos III, Schneider Electric has created the first fully Ethernet-based communication solution for PacDrive and Modicon applications, enabling communication with both drives and field devices.

sercos III also smoothes the way for the integration of safety automation.

sercos III is a true standard, it does not rely upon a specific manufacturer, and it is one of the most powerful Ethernet-based communication solutions currently on the market.

Modicon TM5 interface module for sercos III bus

To enhance its "Flexible machine Control" concept, a key component of MachineStruxure™, and the PacDrive 3 motion controller offer, Schneider Electric offers an interface module providing sercos III access to distributed I/O.

- The PacDrive 3 motion controllers and the Modicon LMC078 motion controller offer the possibility of creating distributed I/O islands via the TM5 interface bus, which enables the architecture to be adapted to match the topology of the machine as closely as possible and reduces wiring costs.
- The Modicon TM5 interface module allows the connection of distributed I/O islands (sensors and actuators) that are distributed over machines via the sercos III bus. These islands communicate on the sercos III bus.



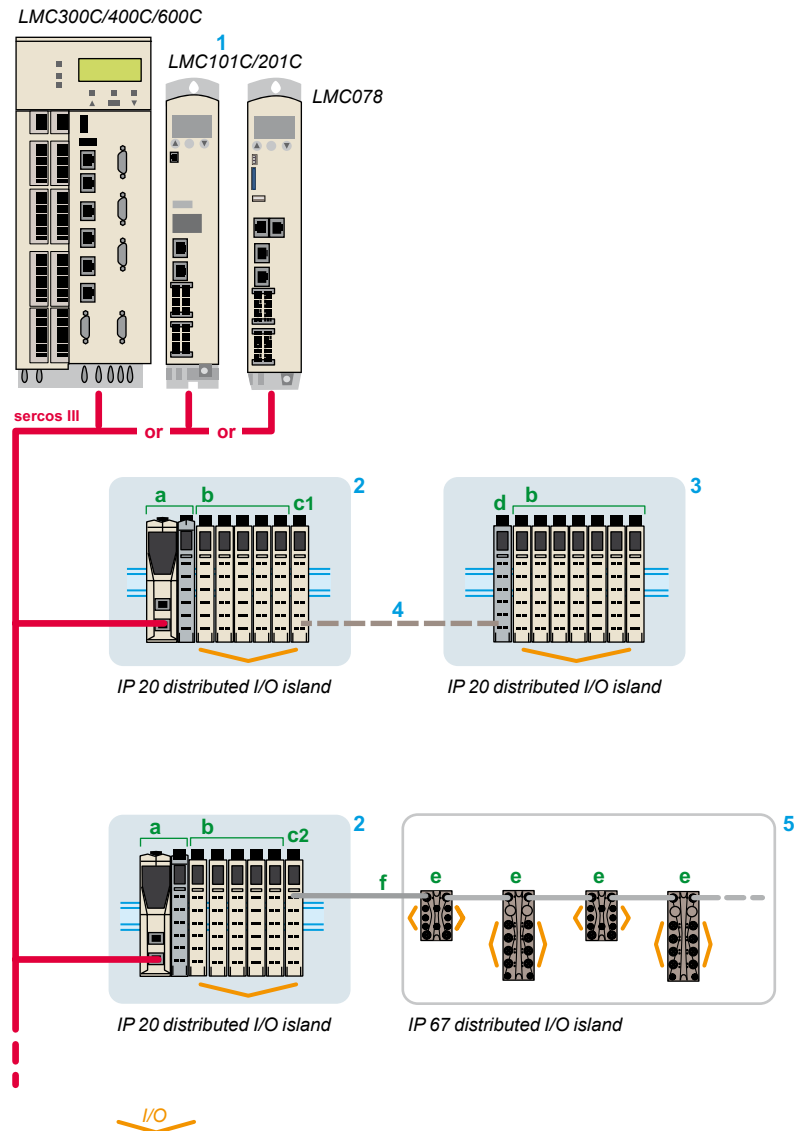
TM5 interface module for sercos III bus

Applications	■ Performance distributed I/O (IP 20)
Compatibility	■ PacDrive 3 motion controllers: LMC101C, LMC201C, LMC 300C, LMC400C, LMC600C ■ Modicon LMC078 motion controller
Available bus	■ sercos III bus
Configuration with I/O expansion modules	■ Module type: □ Modicon TM5 modules and/or Modicon TM7 blocks: □ Digital I/O modules □ Analog I/O modules □ Common distribution modules (TM5 only) ■ Capacity: - For 1 TM5 interface module: 64 TM5/TM7 modules max. including: □ Digital I/O: 768 I/O max. □ Analog I/O: 364 I/O max. ■ Maximum distances □ from the expansion bus (TM5 or TM7): 2500 m. □ between 2 islands of TM5 modules: 100 m. □ between 2 TM7 blocks: 100 m. □ between 1 island of TM5 modules and 1 TM7 block: 100 m.
Integrated I/O	None
Type of distributed I/O expansion module	TM5 interface module for sercos III bus

Modicon TM5 Expansion modules

Modicon TM5 Interface module for distributed I/O modules on sercos III bus

Distributed I/O on sercos III bus architecture



- 1 PacDrive 3/Modicon LMC078 motion controllers: Masters on sercos III bus
- 2 IP 20 distributed I/O islands (1). Composition: TM5 interface module (a) + TM5 compact block or I/O modules (b) + transmitter modules TM5SBET1 (c1)/ TM5SBET7 (c2).
- 3 IP 20 distributed I/O island (1). Composition: receiver module TM5SBER2 (d) + TM5 compact block or TM5 I/O modules (b).
- 4 TM5 expansion bus (1). Composition : remote I/O connection cable TCSXCNXNX100.
- 5 IP 67 distributed I/O island (2). Composition: TM7 IP 67 I/O blocks (digital or analog) (e) + expansion bus cable TM7 TCSXCN...E (f).

(1) Modicon TM5 extension modules: see page 2.

(2) Modicon TM7 I/O blocks: see on our web site www.schneider-electric.com

Modicon TM5 Expansion modules

Modicon TM5 Interface module for distributed I/O on sercos III bus

Presentation

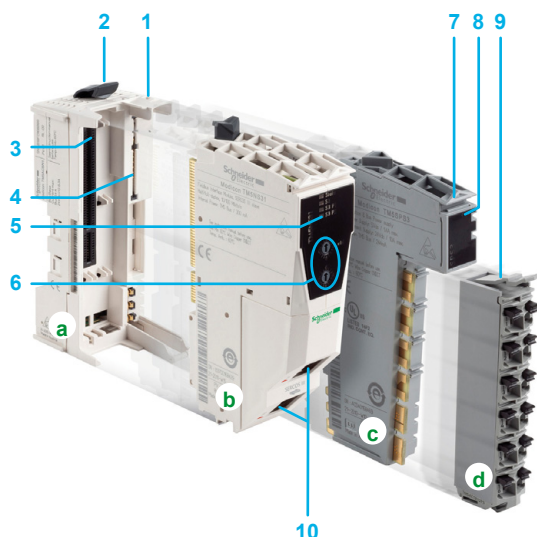
The TM5 interface module is dedicated to applications as Optimum distributed I/O (IP 20) on sercos III bus and is compatible with the PacDrive 3 motion controllers: LMC101C, LMC201C, LMC300C, LMC400C and LMC600C and the Modicon LMC078 motion controller.

The TM5 interface module is a combination of 4 products to be ordered separately:

- TM5ACBN1 bus base (a)
- + TM5NS31 electronic interface module (b)
- + TM5SPS3 power distribution electronic module (c) (1)
- + TM5ACTB12PS removable terminal block (d).

The modules can be mechanically assembled on the bus base before mounting on a symmetrical rail and offer the following advantages:

- Removable terminal block
- Spring terminals for connecting the power supply of the interface module and the I/O expansion modules quickly, with no tools required. In addition, the quality of the spring terminals avoids the need for periodic retightening.



Description

This assembly comprises:

- 1 On the side of the base, an expansion bus connection for the link with the next module
- 2 A mechanical locking lever for mounting/dismounting on a symmetrical rail
- 3 A slot for the power distribution module with connector
- 4 A slot for the sercos III interface module with connector
- 5 A channel and interface module diagnostics LED display block
- 6 Two rotary selector switches for addresses on the bus
- 7 A slot for labelling (label-holder)
- 8 A channel and power distribution module diagnostics LED display block
- 9 A removable spring terminal block with locking clip and slots for coloured identifiers
- 10 Two RJ45 connectors for connecting to the sercos III bus (bus in / bus out)

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

Modicon TM5 Expansion modules

Modicon TM5 Interface module for distributed I/O on sercos III bus



TM5NS31



TM5SPS3



TM5ACBN1



TM5ACTB12PS



TM5ACTLC100



TM5ACTCH100



TM5ACLPL10



TM5ACLPR10

TM5 interface module for sercos III bus

Electronic interface module

Description	Characteristics	Reference	Weight kg/ lb
Electronic interface module	sercos III communication module with sercos III protocol Module colour: white	TM5NS31	0.025/ 0.055

Power distribution electronic module

Input power supply	Characteristics	Reference	Weight kg/ lb
24 V $\overline{\text{---}}$	Power supply for the sercos III bus, interface and I/O expansion modules Module colour: grey	TM5SPS3	0.025/ 0.055

Bus base

Power supply	Characteristics	Unit reference	Weight kg/ lb
24 V $\overline{\text{---}}$	Use for TM5 NS31 and TM5SPS3 electronic module Supplied with 2 protective plates TM5ACPL10 and TM5ACPR10 Colour of the base: white	TM5ACBN1	0.020/ 0.044

Terminal block

Used for	Characteristics	Unit reference	Weight kg/ lb
Power distribution electronic module TM5SPS3	12 spring terminals Terminal block colour: grey	TM5ACTB12PS	0.016/ 0.035

Accessories

Description	Use for	Colour	Sold in lots of	Unit reference	Weight kg/ lb
Plain text cover holder (label-holder)	Labelling the I/O channel terminal blocks	Transparent	100	TM5ACTCH100	0.200/ 0.441
Terminal block shield locking clip (Order with plain text cover holder TM5ACTCH100)	Locking plain text cover holder TM5ACTCH100	Transparent	100	TM5ACTLC100	0.100/ 0.220
Precut sheet of paper labels	Plain text cover holder TM5ACTCH100	White	100	TM5ACTLS100	0.100/ 0.220
Coloured plastic identifiers	Labelling 16 connection channel terminals	White	1	TM5ACLITW1	0.015/ 0.033
		Red	1	TM5ACLITR1	
		Blue	1	TM5ACLITB1	
Metal tool	Inserting/removing TM5ACLIT [●] 1 identifiers	Black	1	TM5ACLT1	0.030/ 0.066
Retaining plates for bus bases	Held on the left side	White	10	TM5ACLPL10	0.004/ 0.009
	Held on the right side	White	10	TM5ACLPR10	
Locking clips	For electronic modules	Black	100	TM5ACADL100	0.001/ 0.002

Configuration software

- SoMachine software, please consult our website www.schneider-electric.com
- Performance distributed I/O configuration software, please consult our website www.schneider-electric.com

(1) Modicon TM5 Transmitter/Receiver modules: see page 2.

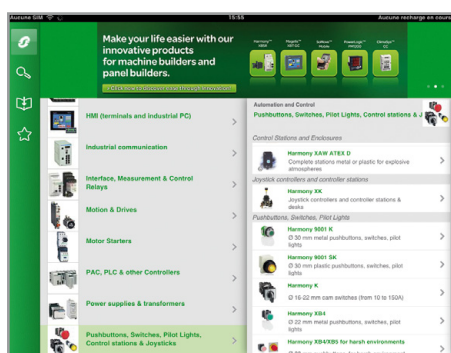
Search, visualize, and download

Use your tablet or your PC to quickly access detailed and comprehensive information on all our products

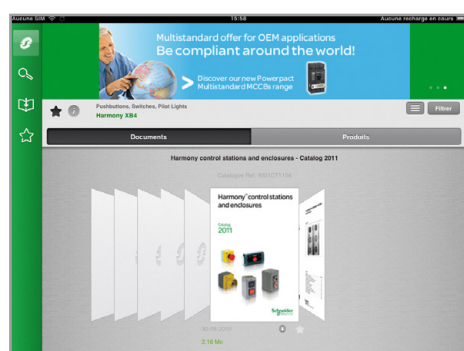


Tablets

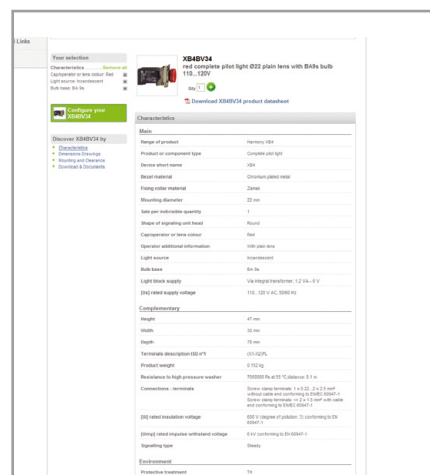
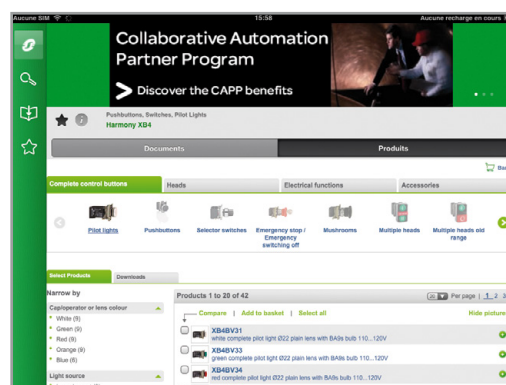
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All product ranges displayed by function



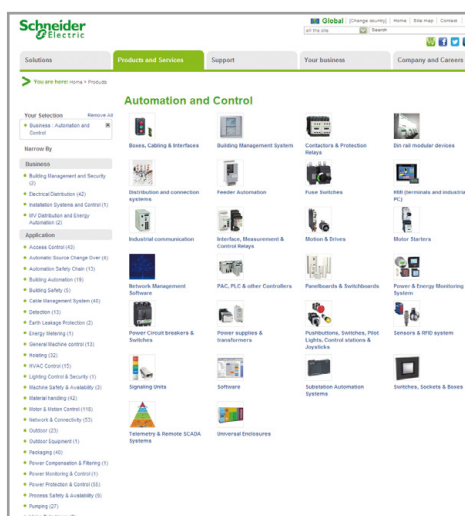
Dynamic catalogues (hyperlinks, video, ...)



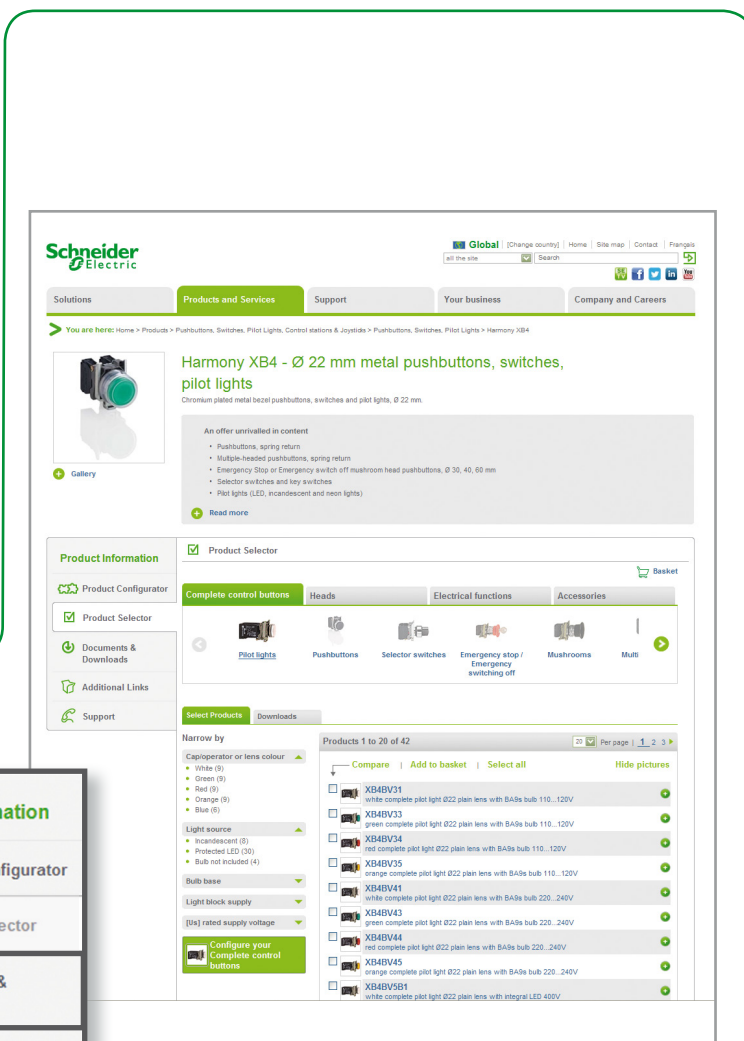
Product selector: dynamic filters to get easily your part number

Personal computer

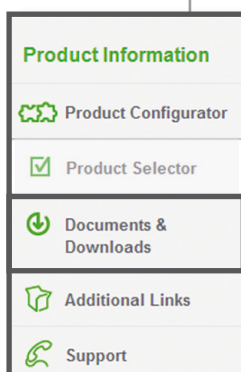
Path: www.schneider-electric.com > **Products and Services** > Automation and control > Product offer



All product ranges displayed by function



Dynamic catalogues (hyperlinks, video, ...)

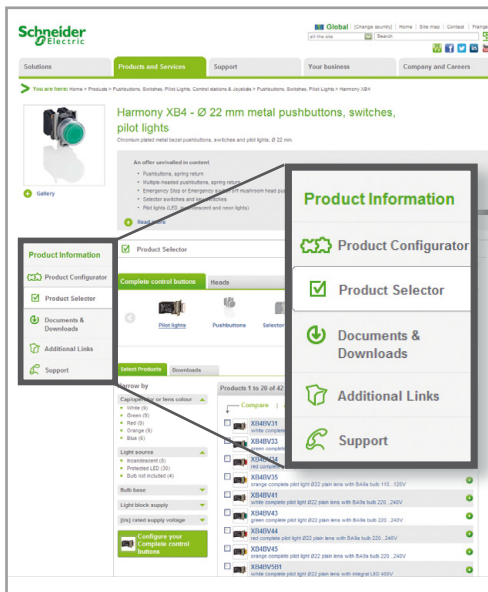


Product selector: dynamic filters to get easily your part number

Access product references with adapted tools

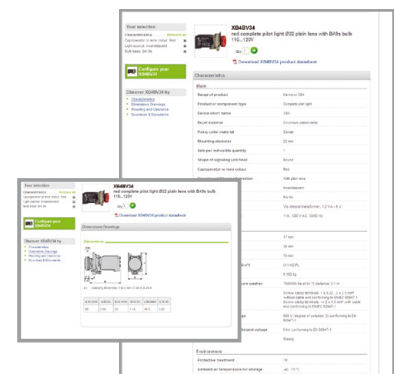
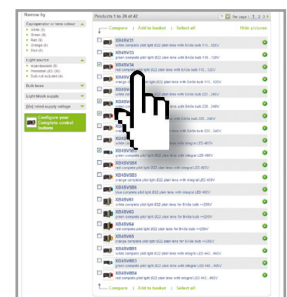
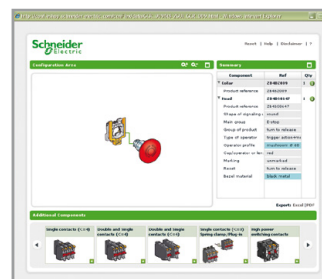
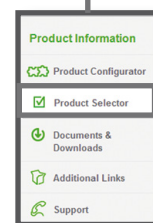
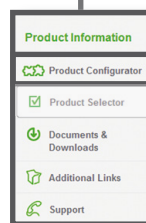


Path: www.schneider-electric.com > **Products and Services** > Automation and control > ... > Product offer



Graphic product configurator
Select the right product with just a few clicks

Dynamic product selector
Visualize product characteristics and dimensions



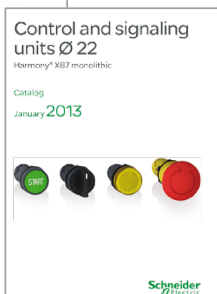
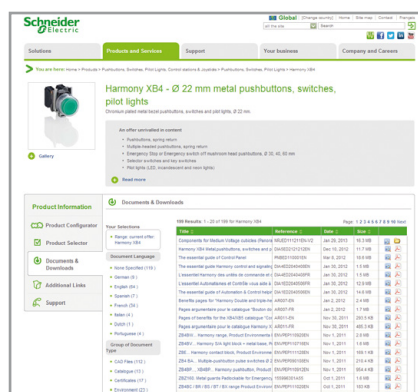
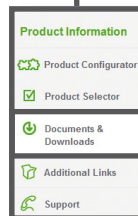
Product data sheet
with technical characteristics
and dimensions

Dimensions

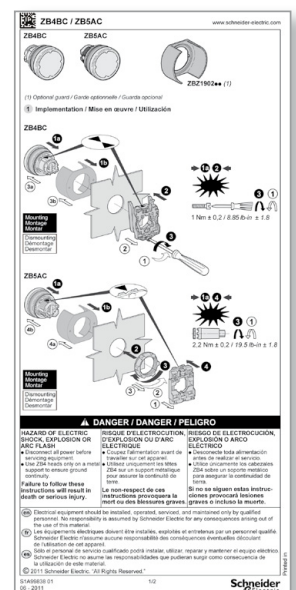
**Technical
characteristics**

Documents and downloads

Visualize and download catalogues, technical publications, certificates, etc.



Essential guides



Dynamic catalogues

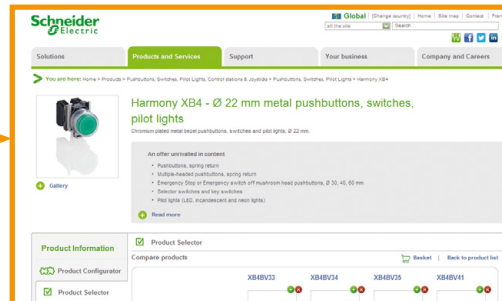
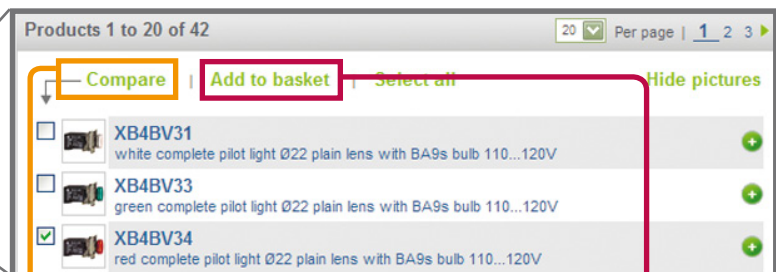
Certificates

Technical publications

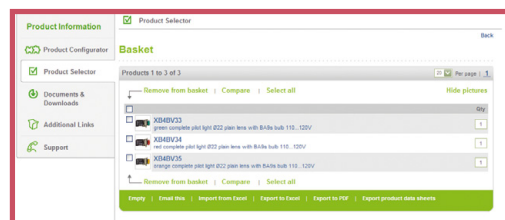
Compare, select, and compile



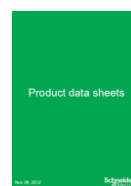
Path: www.schneider-electric.com > **Products and Services** > Automation and control > ... > Harmony XB4*



Compare
technical
characteristics



Select
and store
your products
into
the basket



Compile
all data sheets
in a unique
document

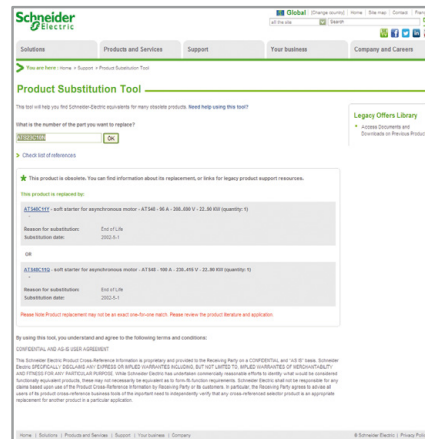
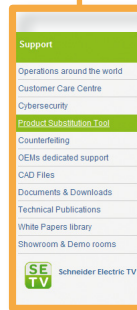
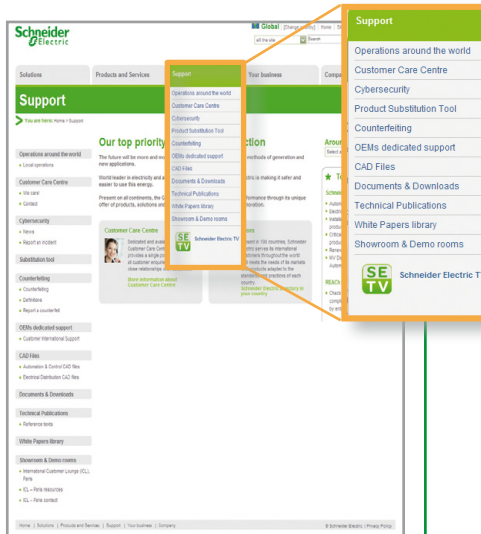
* Example of research on a product

Check the product status, design your equipment

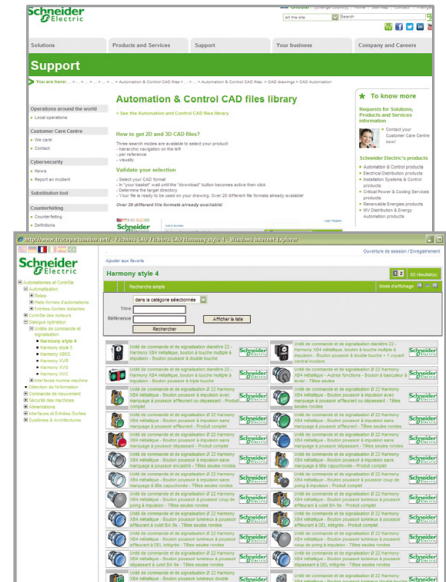


Path: www.schneider-electric.com > **Support** > Product Substitution Tool

Path: www.schneider-electric.com > **Support** > CAD files



Product status:
indicate whether the product
is still commercialized.
Otherwise, the tool suggests a
product substitution.



CAD files:
available in various formats
they will be easily integrated
into your installation design
software.

Please note that all references to products and services are just examples.

T			
TCSXCNNXN100	25	TM5ACLT1	26
TM2XMTGB	17		29
TM5ACADL100	26		33
	29		37
	33	TM5ACTB06	9
	37		13
TM5ACBM01R	23		17
	25		25
			29
TM5ACBM01R10	23	TM5ACTB12	5
	25		9
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TM5ACBM05R	23		17
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		TM5SPS1F	23
		TM5SPS2	23
		TM5SPS2F	23
		TM5SPS3	33
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		TM200RSRCMC	17
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