

Product data sheet

Specifications



communication module, Modicon TM5, fieldbus interface, Sercos 3

TM5NS31

Main

Range of product	Modicon TM5
Product or component type	Sercos III communication module
Physical interface	RJ45

Complementary

Range compatibility	Modicon LMC078
Product compatibility	Motion controller
Integrated connection type	Ethernet/IP, 2 RJ45 connectors Sercos, 100 Mbit/s
Current consumption	350 mA at 5 V DC, base
Device composition	Interface module Bus base ordered separately Power supply ordered separately Terminal block ordered separately
Maximum power dissipation in W	1.75 W
Colour	White
Local signalling	1 LED green/red for STAT 1 LED green/red for Sercos III 1 LED green for Sercos III port 1 1 LED green for Sercos III port 2
Net weight	0.03 kg

Environment

Resistance to electrostatic discharge	4 kV on contact conforming to IEC 61000-4-2 8 kV in air conforming to IEC 61000-4-2
Resistance to electromagnetic fields	1 V/m 2...2.7 GHz conforming to IEC 61000-4-3 10 V/m 80 MHz...2 GHz conforming to IEC 61000-4-3
Resistance to fast transients	1 kV (I/O) conforming to IEC 61000-4-4 1 kV (shielded cable) conforming to IEC 61000-4-4 2 kV (power lines) conforming to IEC 61000-4-4
Surge withstand	0.5 kV differential mode conforming to IEC 61000-4-5 1 kV common mode conforming to IEC 61000-4-5
Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR 11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Package 1 Height	3.000 cm
Package 1 Width	6.000 cm
Package 1 Length	10.500 cm
Package 1 Weight	72.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.852 kg

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

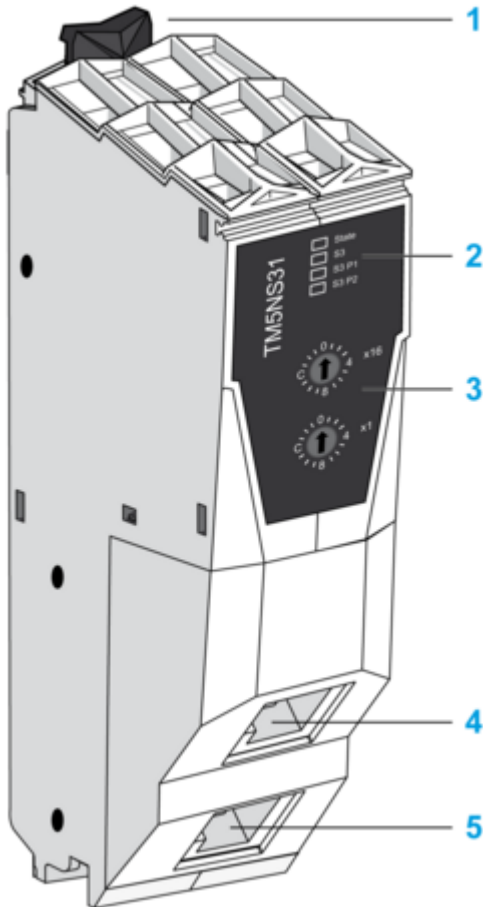
Use Again

Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Presentation

Presentation

Sercos fieldbus interface module



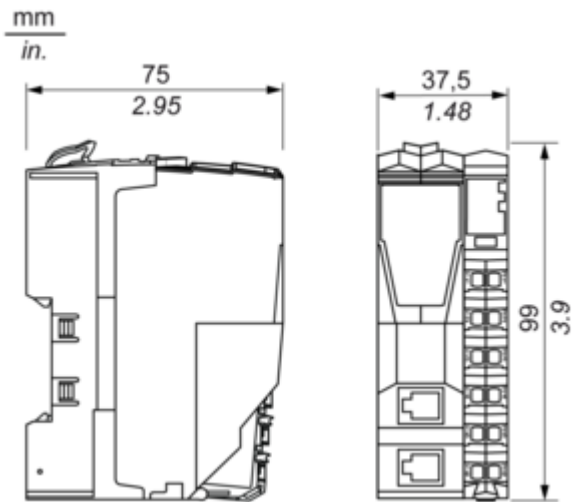
- 1 Locking clip
- 2 Status LEDs
- 3 Sercos III address setting rotary switches
- 4 Sercos III Port 1 connector (RJ45)
- 5 Sercos III Port 2 connector (RJ45)

Dimensions Drawings

Dimensions and Schema

Sercos Fieldbus Interface Module

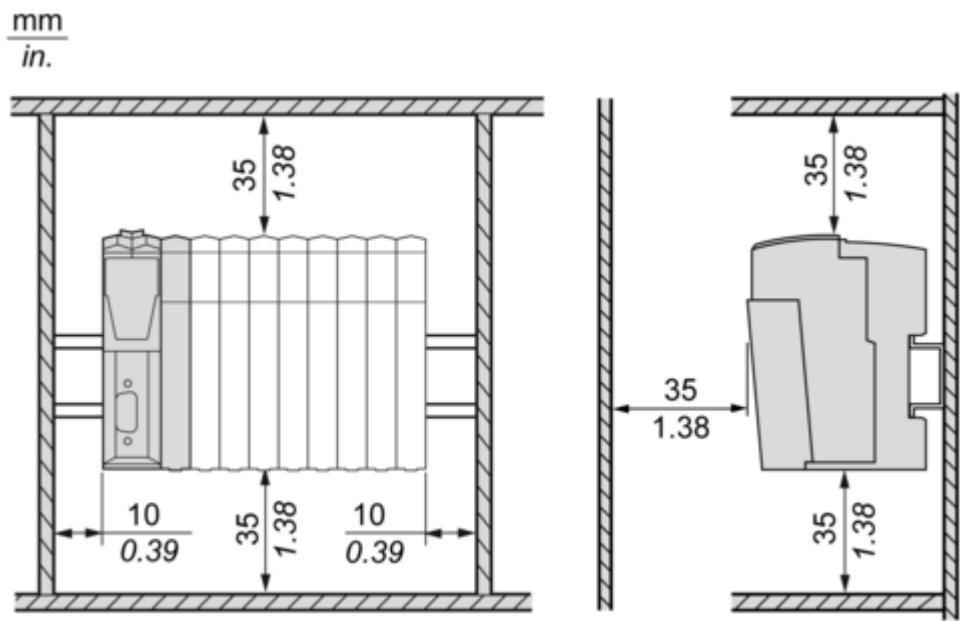
Dimensions



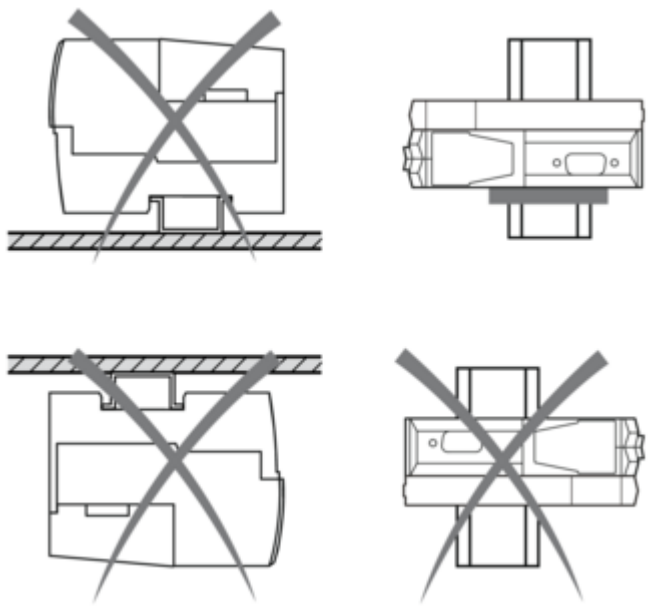
Mounting and Clearance

TM5 System

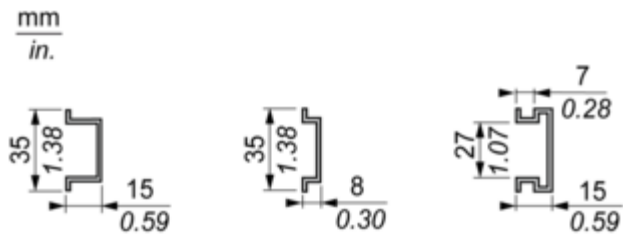
Spacing Requirements



Mounting Position



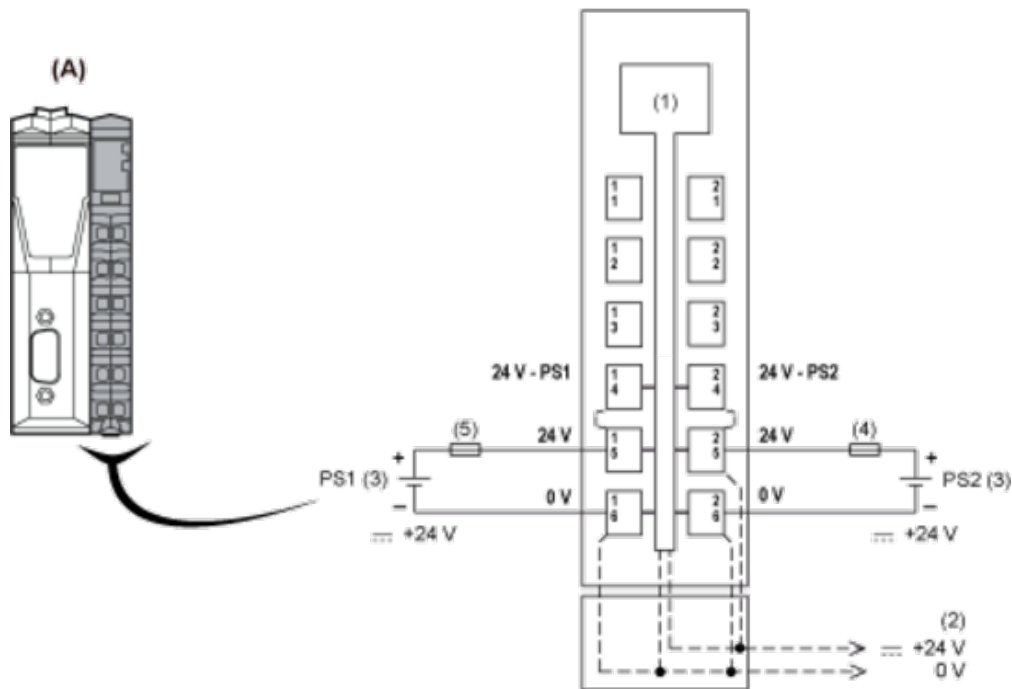
Mounting on a Din Rail



Connections and Schema

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Wiring Diagram



- (A) Interface Power Distribution Module (IPDM)
- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated in the bus bases
- (3) PS1/PS2: External isolated power supply 24 Vdc
- (4) External fuse, Type T slow blow, 10 A max., 250 V
- (5) External fuse, Type T slow blow, 1 A, 250 V