Product data sheet

Specifications



power distribution module, Modicon TM5, 24V DC IO with bus

TM5SPS2

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon TM5
Product or Component Type	Power distribution module
Product Compatibility	Motion controller Logic controller
Range Compatibility	Modicon LMC058 Modicon M258
[Us] rated supply voltage	24 V DC
Power supply output current	1136 mA TM5 power bus 740 mA TM5 power bus 10 A I/O power segment

Complementary

Input current	10000 mA I/O power segment 1136 mA TM5 power bus 740 mA TM5 power bus
Maximum power dissipation in W	1.91 W
Typical current consumption	25 mA 24 V DC
Short-circuit protection	10 A external fuse
Housing Colour	Grey
Electrical Connection	Screw/spring terminal block
Height	3.9 in (99 mm)
Width	0.5 in (12.5 mm)
Depth	3.0 in (75 mm)
Product Weight	0.07 lb(US) (0.03 kg)

Environment

IP Degree of Protection	IP20
Marking	CE
Product certifications	CSA C-tick CULus GOST-R
Standards	UL 508 CSA C22.2 No 213 CSA C22.2 No 142 IEC 61131-2
Ambient air temperature for operation	14…131 °F (-10…55 °C) without derating horizontal installation) 131…140 °F (55…60 °C) with derating factor horizontal installation) 14…122 °F (-10…50 °C) vertical installation)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Ambient air temperature for storage	-13…158 °F (-25…70 °C)
Relative humidity	5…95 % without condensation
Operating altitude	0...6561.68 ft (0...2000 m)
Pollution degree	2
Vibration resistance	1 gn 8.4…150 Hz) on DIN rail 3.5 mm 5…8.4 Hz) on DIN rail
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	US1PC1222532
Discount Schedule	PC12
GTIN	3595864074924
Returnability	Yes
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.787 in (2.000 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	4.134 in (10.500 cm)
Package weight(Lbs)	1.764 oz (50.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	97
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	11.654 lb(US) (5.286 kg)

Contractual warranty

Warranty (in months)	18

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

Total lifecycle Carbon footprint	**79 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**2 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**77 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.1 kg CO2 eq.**
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	Compliant
REACh Regulation	Free of Substances of Very High Concern above the threshold
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 Longer

Lifetime extension

Repair	**No**

Use Again

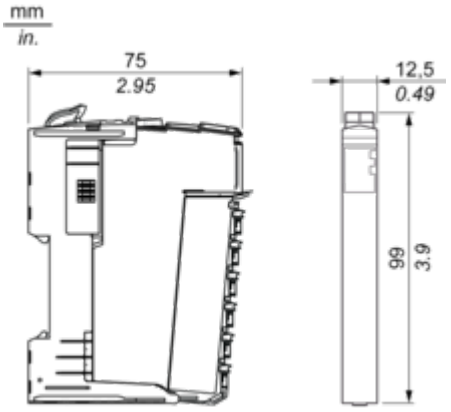
Repack and remanufacture

Recyclability potential, in %	**0**
Circularity Profile	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.**

Dimensions Drawings

TM5 Slice

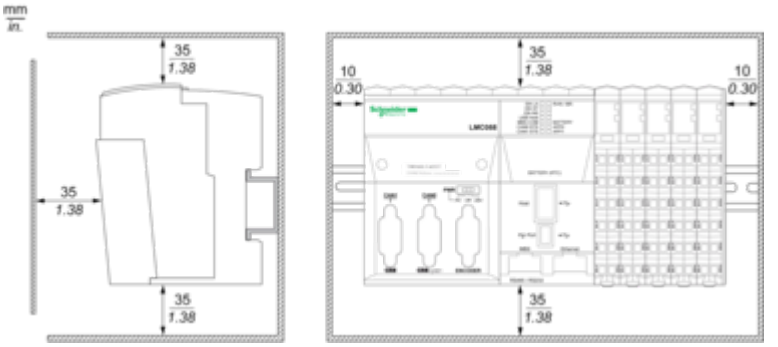
Dimensions



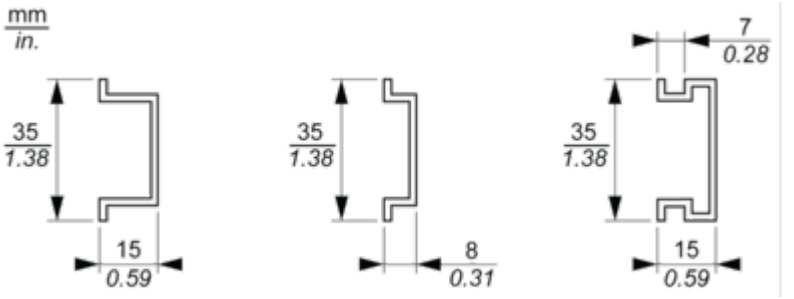
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail



Connections and Schema

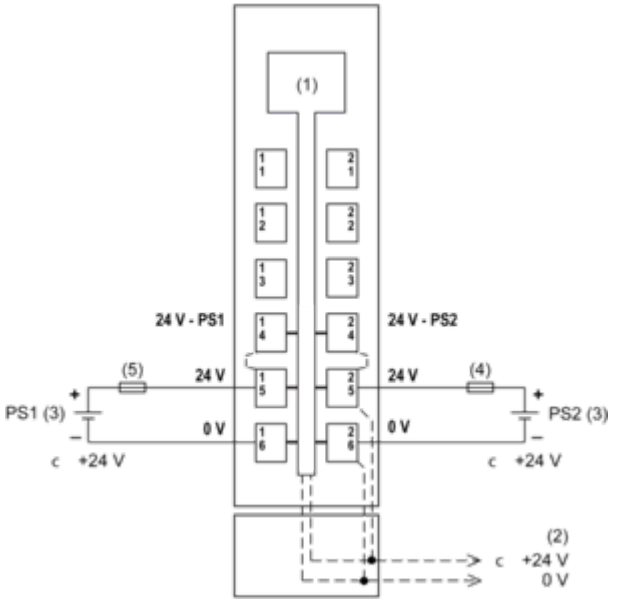
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm / in. 				
mm^2	0,08...2,5	0,25...2,5	0,25...1,5	2 x 0,25...2 x 0,75
AWG	28...14	24...14	24...16	2 x 24...2 x 18

PDM Electronic Module 24 Vdc I/O and TM5 Power Bus

Wiring Diagram



(1) Internal electronics
(2) 24 Vdc I/O power segment integrated into the bus bases
(3) PS1/PS2: External isolated SELV power supplies 24 Vdc limited to 200 VA for UL508 conformance, or limited to 150 VA for CSA 22.2, N° 142 conformance
(4) External fuse type T slow-blow 10 A max. 250 V
(5) External fuse type T slow-blow 1 A 250 V