

Product data sheet

Specifications



Safety discrete I/O module, Modicon TM5, digital 6I, 2O, 24V DC

TM5SDM8TBFS

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon TM5
Product or Component Type	Safety discrete I/O module
Product Compatibility	PacDrive LMC Eco PacDrive LMC Pro 2 PacDrive LMC Pro
Range Compatibility	PacDrive LMC motion controller
Discrete input number	6
Discrete input voltage	24 V DC 20.4...28.8 V)
Discrete input logic	Sink
Discrete output number	2
Discrete output logic	Source
Discrete output voltage	24 V DC 20.4...28.8 V)transistor

Complementary

Discrete input compatibility	6 at 24 V DC
Discrete input current	2.48 mA at 24 V DC
Voltage state 1 guaranteed	>= 15 V
Voltage state 0 guaranteed	<= 5 V
Input impedance	9.68 kOhm
Input filtering	<= 500 ms configurable by software <= 150 ms hardware
Discrete output number	2 transistor at 24 V DC
Safety level	SIL 3 IEC 61508 SIL 3 IEC 62061 PL = e EN 13849-1
Safety reliability data	PFD < 1E-5 PFH < 1E-9 MTTFd = 2500 years
Electrical Connection	2 wires
Local signalling	1 LED (green) for power supply 1 LED (red) for power supply 2 LEDs (red) for safety status 2 LEDs (red/orange) for output status 6 LEDs (green/red) for input status
Height	3.9 in (99 mm)
Width	1.0 in (25 mm)
Depth	3.0 in (75 mm)

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

Product Weight	0.146 lb(US) (0.066 kg)
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode IEC 61000-4-5 Conducted RF disturbances IEC 61000-4-6 Conducted and radiated emissions CISPR 11

Environment

IP Degree of Protection	IP20
Marking	CE
Product certifications	CSA CULus
Standards	CSA C22.2 No 142 EN 13849-1 IEC 61508 IEC 62061 IEC 61131-2
Ambient air temperature for operation	32...122 °F (0...50 °C) vertical installation) 32...131 °F (0...55 °C) horizontal installation)
Ambient air temperature for storage	-40...158 °F (-40...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	US1PC5218353
Discount Schedule	PC52
GTIN	3606480941146
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.181 in (3.000 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	3.937 in (10.000 cm)
Package weight(Lbs)	2.363 oz (67.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	50
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	8.477 lb(US) (3.845 kg)

Contractual warranty

Warranty (in months)	18
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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

Total lifecycle Carbon footprint	59 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]	56 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
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Use Again



Repack and remanufacture

Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No