

Product data sheet

Specifications



Safety discrete I/O expansion block, Modicon TM7, IP67, 8 DI, 24 V DC, 2 A, M12 connector

TM7SDI8DFS

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

Main

Range of Product	Modicon TM7
Product or Component Type	Safety discrete I/O expansion block
Range Compatibility	Modicon LMC058 Modicon M258
Enclosure Material	Plastic
Bus type	TM7 bus
Discrete input number	8
Discrete input voltage	24 V DC
Discrete input logic	Positive logic (sink)
Discrete output number	8
Discrete output voltage	24 V DC

Complementary

Discrete input compatibility	8 at 24 V DC
Discrete input current	6 mA at 24 V DC
Input protection type	Protected against short-circuit Reverse polarity protection
Discrete output number	8 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 MTTFd = 2500 years PFH < 1E-10
Electrical connection	1 male connector M12 - B coding - 4 ways bus IN 1 female connector M12 - B coding - 4 ways bus OUT 1 male connector M8 - 4 ways power IN 1 female connector M8 - 4 ways power OUT 2 female connectors M12 - A coding - 5 ways digital I/O 2 female connectors M12 - A coding - 8 ways digital I/O
Operating position	Any position
Fixing Mode	By 2 screws
Local signalling	2 LEDs for power supply status 2 LEDs for safety status 12 LEDs for input/output status
Height	4.3 in (110 mm)
Width	2.09 in (53 mm)
Depth	1.7 in (42 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	0.437 lb(US) (0.198 kg)
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Environment

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, 2 kV power supply IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV input/output IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV power supply (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV power supply (differential mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV unshielded links (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV unshielded links (differential mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV shielded links (common mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV shielded links (differential mode) IEC 61000-4-5
IP Degree of Protection	IP67
Marking	CE
Product certifications	CULus
Ambient air temperature for operation	14...140 °F (-10...60 °C)
Ambient air temperature for storage	-13...185 °F (-25...85 °C)
Relative humidity	5...95 % without condensation or dripping water
Operating altitude	0...6561.68 ft (0...2000 m)
Pollution degree	2
Vibration resistance	7.5 mm 2...8 Hz) IEC 60721-3-5 Class 5M3 2 gn 8...200 Hz) IEC 60721-3-5 Class 5M3 4 gn 200...500 Hz) IEC 60721-3-5 Class 5M3
Shock resistance	30 gn 11 msIEC 60721-3-5 Class 5M3

Ordering and shipping details

Category	US1PC5218360
Discount Schedule	PC52
GTIN	3606480941184
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	2.362 in (6.000 cm)
Package 1 Length	4.331 in (11.000 cm)
Package weight(Lbs)	7.584 oz (215.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	35
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	17.339 lb(US) (7.865 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	80 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	12 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]	68 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

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 %	10
Circularity Profile	End of Life Information
Take-back	No