



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
[Ue] rated operational voltage	24 V DC
Input/output number	8
Input/output number of block	8 I

Complementary

Discrete input number	0..8 configurable by software
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete input current	6 mA
Discrete input logic	Positive logic (sink)
Discrete output number	0 at <= 2 A (configurable by software) 8 clock push-pull at <= 80 mA with short-circuit and thermal limit protection
Discrete output voltage	24 V
Discrete output voltage type	DC
Electrical connection	1 male connector M12 - B coding - 4 ways for bus IN 1 female connector M12 - B coding - 4 ways for bus OUT 1 male connector M8 - 4 ways for power IN 1 female connector M8 - 4 ways for power OUT 2 female connectors M12 - A coding - 5 ways for digital I/O 2 female connectors M12 - A coding - 8 ways for digital I/O
Local signalling	2 LEDs for power supply status 2 LEDs for safety status 12 LEDs for input/output status
Operating position	Any position
Fixing mode	By 2 screws
Net weight	0.198 kg
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1
Safety reliability data	PFd < 1E-5 MTTFd = 2500 years PFH < 1E-10

Environment

Product certifications	CULus
Marking	CE
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...85 °C
Relative humidity	5...95 % without condensation or dripping water
Pollution degree	2 conforming to IEC 60664
IP degree of protection	IP67 conforming to IEC 61131-2
Operating altitude	0...2000 m

Vibration resistance	7.5 mm constant amplitude (f= 2...8 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn constant acceleration (f= 8...200 Hz) conforming to IEC 60721-3-5 Class 5M3 4 gn constant acceleration (f= 200...500 Hz) conforming to IEC 60721-3-5 Class 5M3
Shock resistance	30 gn for 11 ms conforming to IEC 60721-3-5 Class 5M3
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 2 kV power supply conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV input/output conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV power supply (common mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV power supply (differential mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV unshielded links (common mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV unshielded links (differential mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 0.5 kV shielded links (common mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV shielded links (differential mode) conforming to EN/IEC 61000-4-5

Packing Units

Package 1 Weight	0.198 kg
Package 1 Height	31.000 mm
Package 1 width	60.000 mm
Package 1 Length	104.000 mm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes