Product data sheet
Characteristics

TM7BDI8B
Discrete I/O expansion block, Modicon TM7, IP67, 8 DI, 24 V DC, M8 connector



Main

Range of product	Modicon TM7
Product or component type	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

Complementary

Discrete input number	8 at 24 V DC
Discrete input current	7 MA at 24 V DC
Input protection type	Protected against short-circuit Reverse polarity protection
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 8 female connectors M8 - 3 ways for sensor
Operating position	Any position
Fixing mode	By 2 screws
Local signalling	2 LEDs for bus diagnostic 2 LEDs for sensor power supply diagnostics
Height	99 Mm
Width	12.5 Mm
Depth	75 Mm
Net weight	0.18 Kg

Environment

Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test, 2 kV power supply conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV input/output conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV power supply (common mode) conforming to IEC 61 1.2/50 µs shock waves immunity test, 1 kV power supply (differential mode) conforming to IEC 61 1.2/50 µs shock waves immunity test, 0.5 kV unshielded links (common mode) conforming to IEC 1.2/50 µs shock waves immunity test, 1 kV unshielded links (differential mode) conforming to IEC 1.2/50 µs shock waves immunity test, 0.5 kV shielded links (common mode) conforming to IEC 61 1.2/50 µs shock waves immunity test, 1 kV shielded links (differential mode) conforming to IEC 61 Conducted RF disturbances conforming to IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11
IP degree of protection	IP67
Marking	CE
Product certifications	C-Tick[RETURN]ATEX II 3g EEx nA II T5[RETURN]CURus[RETURN]GOST-R
Standards	IEC 61131-2
Ambient air temperature for operation	-10…60 °C
Ambient air temperature for storage	-25…85 °C
Relative humidity	5…95 % without condensation or dripping water
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	7.5 mm (f = 2…8 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn (f = 8…200 Hz) conforming to IEC 60721-3-5 Class 5M3 4 gn (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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 Cm
Package 1 Width	5.900 Cm
Package 1 Length	10.600 Cm
Package 1 Weight	200.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	5.048 Kg

Offer Sustainability

Recyclability potential, in %	10
Total lifecycle Carbon footprint	51 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	10.952962929995735
Carbon footprint of the manufacturing phase [A1 to A3]	11 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	39.52317615568302
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	40 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No

Carbon footprint of the end-of-life phase [C1 to C4]	0.2545449095104223
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Total lifecycle Carbon footprint	51
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. announced