TM7BDI8B

expansion block - TM7 - IP67 - 8 DI - 24V DC - M8 connector



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



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
System Voltage	24 V DC
Input/output number	8
Input/output number of block	81

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Discrete input number	8 input(s)	
Discrete input voltage	24 V	
Discrete input voltage type	DC	
Discrete input current	7 mA	
Discrete input logic	Positive	
Sensor power supply	24 V, 500 mA for all channels with overload, short-circuit and reverse polarity protection	
Electrical connection	1 male connector M8 - 4 ways power IN 1 female connector M8 - 4 ways power OUT 1 male connector M12 - B coding - 4 ways bus IN 1 female connector M12 - B coding - 4 ways bus OUT 8 female connectors M8 - 3 ways sensor	
Local signalling	LEDs bus diagnostic LEDs sensor power supply diagnostics	
Operating position	Any position	
Fixing mode	By 2 screws	
Product weight	0.4 lb(US) (0.18 kg)	

Environment

Standards	IEC 61131-2	
Product certifications	C-Tick CURus GOST-R ATEX II 3g EEx nA II T5	
Marking	CE	
Ambient air temperature for operation	14140 °F (-1060 °C)	
Ambient air temperature for storage	-13185 °F (-2585 °C)	
Relative humidity	595 % without condensation or dripping water	
Pollution degree	2 conforming to IEC 60664	
IP degree of protection	IP67 conforming to IEC 61131-2	
Operating altitude	06561.68 ft (02000 m)	
Storage altitude	09842.52 ft (03000 m)	
Vibration resistance	7.5 mm constant amplitude (f = 28 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn constant acceleration (f = 8200 Hz) conforming to IEC 60721-3-5 Class 5M3 4 gn constant acceleration (f = 200500 Hz) conforming to IEC 60721-3-5 Class 5M3	

Shock resistance	30 gn 11 ms conforming to IEC 60721-3-5 Class 5M3
Electromagnetic compatibility	Conducted and radiated emissions conforming to CISPR 11
	Conducted RF disturbances conforming to EN/IEC 61000-4-6
	Electrostatic discharge immunity test (level: 4 kV - on contact) conforming to EN/ IEC 61000-4-2
	Electrostatic discharge immunity test (level: 8 kV - in air) conforming to EN/IEC 61000-4-2
	Susceptibility to electromagnetic fields (level: 1 V/m - 22.7 GHz) conforming to EN/IEC 61000-4-3
	Susceptibility to electromagnetic fields (level: 10 V/m - 802000 MHz) conforming to EN/IEC 61000-4-3
	Electrical fast transient/burst immunity test (level: 2 kV - power supply) conforming to EN/IEC 61000-4-4
	Electrical fast transient/burst immunity test (level: 1 kV - input/output) conforming to EN/IEC 61000-4-4
	Electrical fast transient/burst immunity test (level: 1 kV - shielded cable) conforming to EN/IEC 61000-4-4
	1.2/50 µs shock waves immunity test (level: 0.5 kV - power supply (common mode)) conforming to EN/IEC 61000-4-5
	1.2/50 µs shock waves immunity test (level: 1 kV - power supply (differential mode)) conforming to EN/IEC 61000-4-5
	1.2/50 µs shock waves immunity test (level: 0.5 kV - unshielded links (common mode)) conforming to EN/IEC 61000-4-5
	1.2/50 μs shock waves immunity test (level: 1 kV - unshielded links (differential mode)) conforming to EN/IEC 61000-4-5
	1.2/50 µs shock waves immunity test (level: 0.5 kV - shielded links (common mode)) conforming to EN/IEC 61000-4-5
	1.2/50 μs shock waves immunity test (level: 1 kV - shielded links (differential mode)) conforming to EN/IEC 61000-4-5

Ordering and shipping details

0 11 0		
Category	22532 - M258 PLC	
Discount Schedule	PC12	
GTIN	00785901988434	
Nbr. of units in pkg.	1	
Package weight(Lbs)	0.4700000000000003	
Returnability	N	
Country of origin	AT	

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available Product Environmental Profile	
Product end of life instructions	Available End Of Life Information	
California proposition 65	WARNING: This product can expose you to chemicals including:	
Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	
More information	For more information go to www.p65warnings.ca.gov	

Contractual warranty

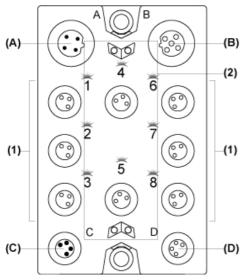
Warranty period	18 months	

Product data sheet Presentation

TM7BDI8B

Digital Input Block

Description



- (A) TM7 bus IN connector
 (B) TM7 bus OUT connector
 (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector (1) Input connectors (2) Status LEDs

Connector and Channel Assignments

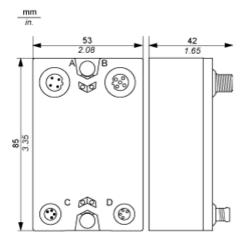
Input connectors	Channel type	Channels
1	Input	10
2	Input	11
3	Input	12
4	Input	13
5	Input	14
6	Input	15
7	Input	16
8	Input	17

Product data sheet Dimensions Drawings

TM7BDI8B

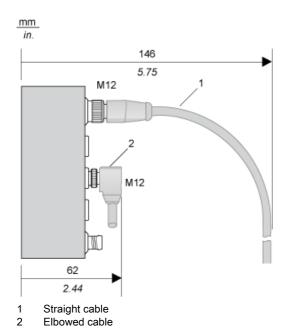
TM7 Block, Size 1

Dimensions



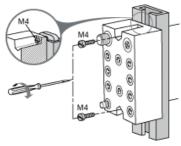
TM7BDI8B

Spacing Requirements



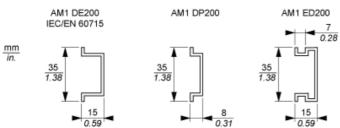
Installation Guidelines

TM7 Block on an Aluminium Frame



NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

TM7 Block on a DIN Rail

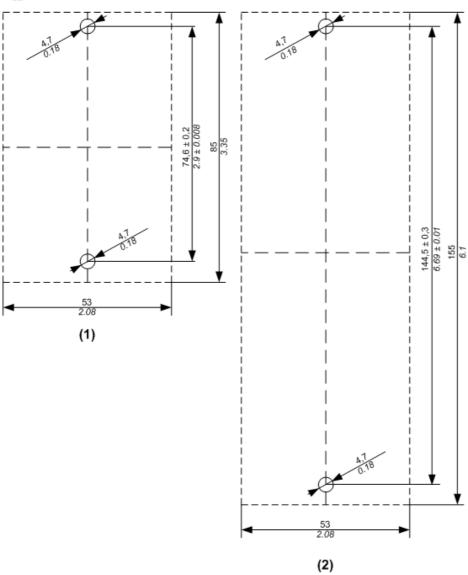


NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

TM7 Block Directly on the Machine

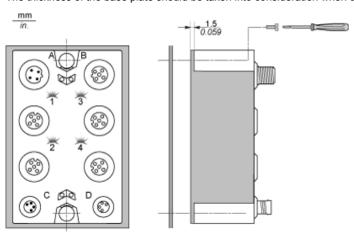
Drilling template of the block:





- (1)
- Size 1 Size 2 (2)

The thickness of the base plate should be taken into consideration when defining the screw length.



NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

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Wiring Diagram

Pin Assignments for Input Connectors

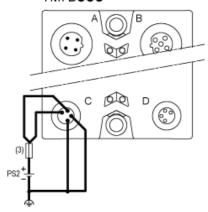
Connection	Pin	M8 Input
3 4	1	24 Vdc sensor supply
3	0 Vdc	
4	DI: input signal	

Wiring the Power Supply

When you provide power to a TM7 I/O block using the 24 VDC Power OUT connector of the preceding I/O block, both blocks occupy the same 24 Vdc I/O power segment. However, if you connect an external isolated power supply to the 24 Vdc Power IN connector of a TM7 I/O block, you establish a new 24 Vdc I/O power segment beginning with that I/O block.

I/O block wired with one external 24 Vdc power supply:

TM7B●●●



(3) External fuse, Type T slow-blow, 8 A max., 250 V PS2 External isolated I/O power supply, 24 Vdc

Mouser Electronics

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