

Product data sheet

Characteristics

TM7BAI4VLA

Analog I/O expansion block, Modicon TM7, IP67,
4 AI, +/-10 V, M12 connector



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

Price*: 858.00 USD



Main

Range of product	Modicon TM7
Product or Component Type	Analog I/O expansion block
Range Compatibility	Modicon M258 Modicon LMC058
Enclosure Material	Plastic
Bus type	TM7 bus
Input/output number	4
Input/output number of splitter box	4 I

Complementary

Analogue input number	4
Analogue Input Type	Voltage
Analogue input range	+/- 10 V
Analogue input resolution	11 bits + sign
Operating position	Any position
Fixing Mode	By 2 screws
Product Weight	0.44 Lb(US) (0.2 kg)

Environment

Standards	IEC 61131-2
Product Certifications	CURus GOST-R ATEX II 3g EEx nA II T5 C-tick
Marking	CE
Ambient Air Temperature for Operation	14...140 °F (-10...60 °C)
Ambient Air Temperature for Storage	-13...185 °F (-25...85 °C)
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 Ft (0...3000 m)

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Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR 11

Ordering and shipping details

Category	22532 - M258 PLC
Discount Schedule	PC12
GTIN	3595864093123
Nbr. of units in pkg.	1
Package weight(Lbs)	8.11 Oz (230 g)
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.97 In (5 cm)
Package 1 width	2.36 In (6 cm)
Package 1 Length	4.13 In (10.5 cm)

Offer Sustainability

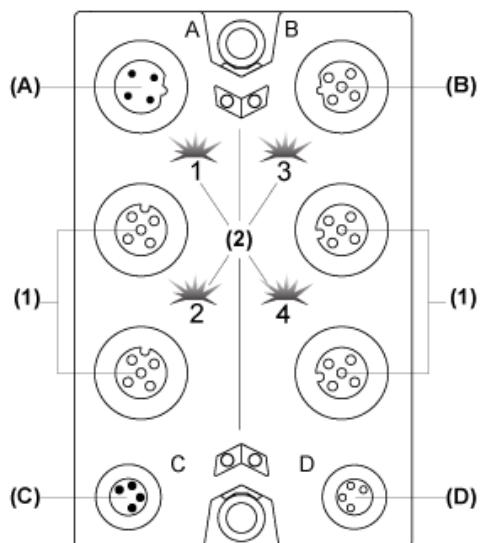
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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

Contractual warranty

Warranty	18 months
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Analog Input Block

Description



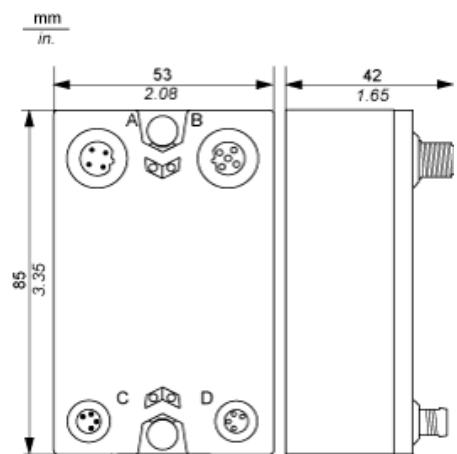
- (A) TM7 bus IN connector
- (B) TM7 bus OUT connector
- (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector
- (1) Input connectors
- (2) Status LEDs

Connector and Channel Assignments

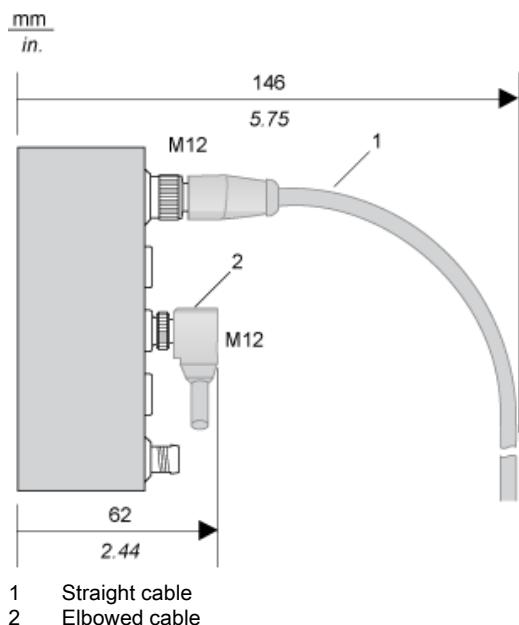
Input connectors	Channel type	Channels
1	Input	I0
2	Input	I1
3	Input	I2
4	Input	I3

TM7 Block, Size 1

Dimensions



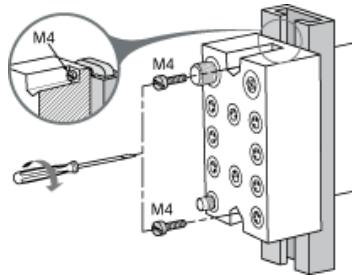
Spacing Requirements



1 Straight cable
2 Elbowed cable

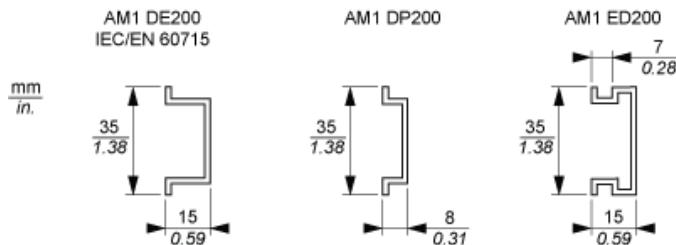
Installation Guidelines

TM7 Block on an Aluminium Frame



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

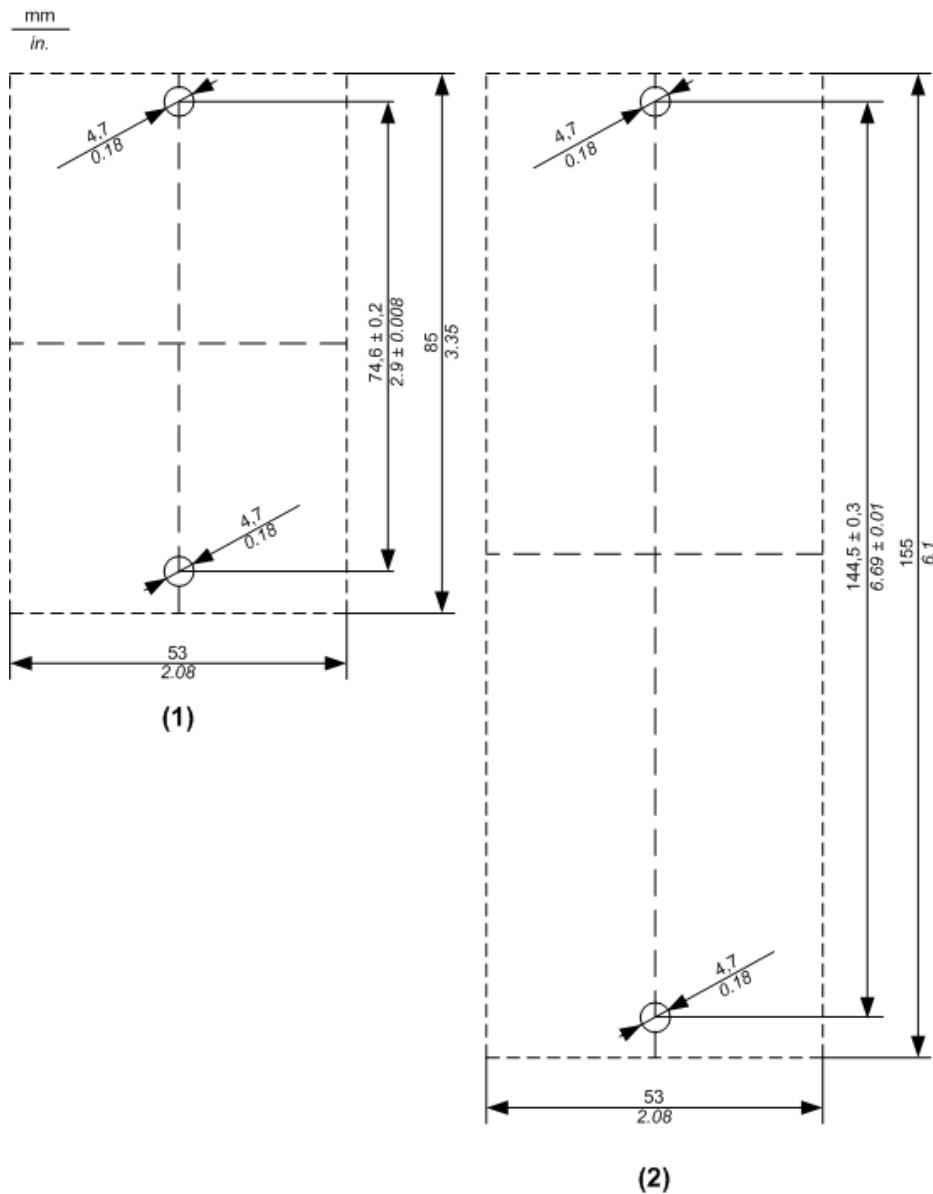
TM7 Block on a DIN Rail



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

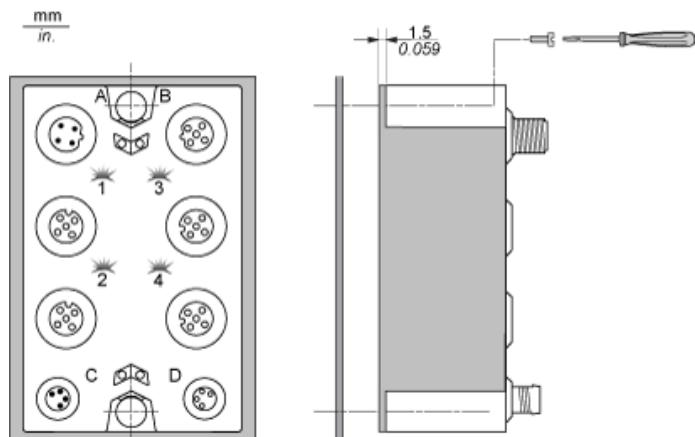
TM7 Block Directly on the Machine

Drilling template of the block:



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

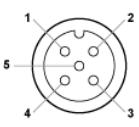
The thickness of the base plate should be taken into consideration when defining the screw length.



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

Wiring Diagram

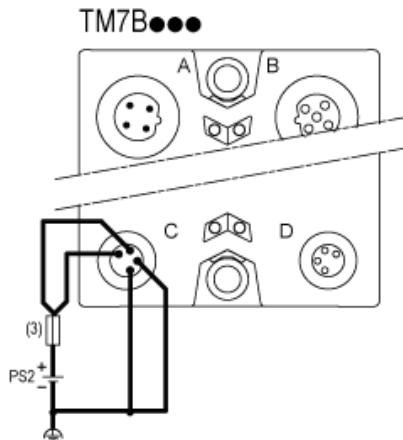
Pin Assignments for Input Connectors

Connection	Pin	M12 input
	1	24 Vdc sensor supply
2		Analog input +
3		0 Vdc
4		Analog input -
5		Shield

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:



Product Life Status : **Commercialised**