TM7BAO4CLA

expansion block - TM7 - IP67 - 4 AO - 0-20mA - M12 connector



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



Main	
Range of product	Modicon TM7
Product or component type	Analog 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	4
Input/output number of block	40

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4
Current
020 mA
12 bits
24 V, 500 mA for all channels with overload, short-circuit and reverse polarity protection
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 4 female connectors M12 - A coding - 5 ways actuator
LEDs bus diagnostic LEDs sensor/actuator power supply status
Any position
By 2 screws
0.44 lb(US) (0.2 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	

Resistance to electrostatic discharge	6 kV in contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2	
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) (f = 0.082 Hz conforming to EN/IEC 61000-4-3 0.91 V/yd (1 V/m) (f = 22.7 Hz conforming to EN/IEC 61000-4-3	
Resistance to fast transients	1 kV shielded cable conforming to EN/IEC 61000-4-4 2 kV power supply conforming to EN/IEC 61000-4-4 1 kV input/output conforming to EN/IEC 61000-4-4	
Surge withstand for DC 24 V circuit	1 kV power supply (common mode) conforming to EN/IEC 61000-4-5 0.5 kV power supply (differential mode) conforming to EN/IEC 61000-4-5 1 kV unshielded links (common mode) conforming to EN/IEC 61000-4-5 0.5 kV unshielded links (differential mode) conforming to EN/IEC 61000-4-5 1 kV shielded links (common mode) conforming to EN/IEC 61000-4-5 0.5 kV shielded links (differential mode) conforming to EN/IEC 61000-4-5	
Electromagnetic compatibility	EN/IEC 61000-4-6	
Disturbance radiated/conducted	CISPR 11	

Ordering and shipping details

Category	22532 - M258 PLC
Discount Schedule	PC12
GTIN	00785901988144
Nbr. of units in pkg.	1
Package weight(Lbs)	0.510000000000001
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 can cer and birth defects or other reproductive harm.	
More information	For more information go to www.p65warnings.ca.gov	

Contractual warranty

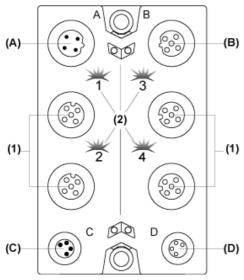
Warranty period	18 months	

Product data sheet Presentation

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Analog Output 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) Output connectors
- (2) Status LEDs

Connector and Channel Assignments

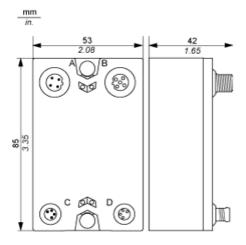
Output connectors	Channel type	Channels
1	Output	Q0
2	Output	Q1
3	Output	Q2
4	Output	Q3

Product data sheet Dimensions Drawings

TM7BAO4CLA

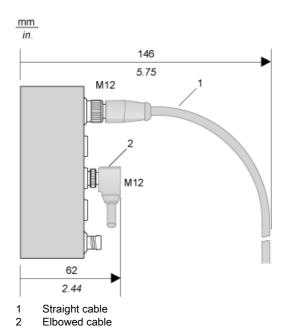
TM7 Block, Size 1

Dimensions



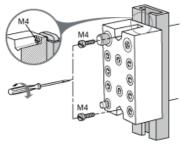
TM7BAO4CLA

Spacing Requirements



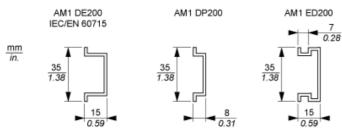
Installation Guidelines

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

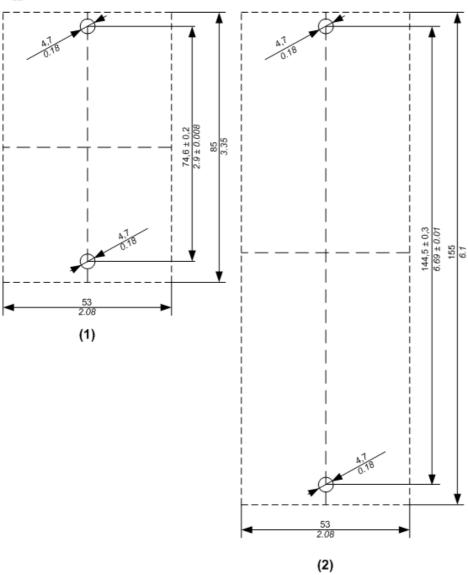


NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

TM7 Block Directly on the Machine

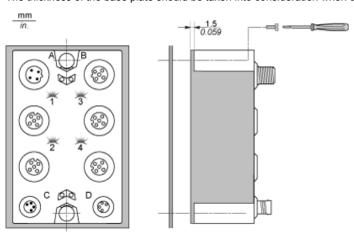
Drilling template of the block:





- (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).

Product data sheet Connections and Schema

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Wiring Diagram

Pin Assignments for Output Connectors

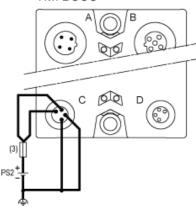
Connection	Pin	M12 Output
5 0 0 3	1	Analog output +
2	24 Vdc actuator supply	
3	Analog output - (0 Vdc)	
4	0 Vdc	
5	Shield	

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:

TM7B●●●



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

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