CANopen interface block - IP67 - 8 I/O - M8



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



Main	
Range of product	Modicon TM7
Product or component type	CANopen interface I/O block
Range compatibility	Modicon LMC058 Modicon M258
Enclosure material	Plastic
Bus type	CANopen
System Voltage	24 V DC
Input/output number	8
Input/output number of block	8 I/O

O			4
Com	pier	nen	tary

Discrete input number	08 input(s) configurable by software	
Discrete input voltage	24 V	
Discrete input voltage type	DC	
Discrete input current	4.4 mA	
Discrete input logic	Positive	
Discrete output number	08 output(s) configurable by software	
Discrete output voltage	24 V	
Discrete output voltage type	DC	
Discrete output current	<= 0.5 A	
Discrete output type	Transistor	
Sensor power supply	24 V, 500 mA for all channels with overload, short-circuit and reverse polarity tection	
Electrical connection	1 male connector M12 - A coding - 5 ways CANopen bus IN 1 female connector M12 - B coding - 4 ways TM7 bus OUT 8 female connectors M8 - 3 ways sensor or actuator 1 male connector M8 - 4 ways power IN 1 female connector M8 - 4 ways power OUT	
Local signalling	2 LEDs bus diagnostic1 LED actuator power supply diagnostics1 LED sensor power supply diagnostics	
Operating position	Any position	
Fixing mode	By 2 screws	
Product weight	0.43 lb(US) (0.195 kg)	

Environment

Standards	IEC 61131-2	
Product certifications	C-Tick GOST-R ATEX II 3g EEx nA II T5 cURus	
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 6100 0.5 kV power supply (differential mode) conforming to EN/IEC 6 1 kV unshielded links (common mode) conforming to EN/IEC 61 0.5 kV unshielded links (differential mode) conforming to EN/IEC 1 kV shielded links (common mode) conforming to EN/IEC 6100 0.5 kV shielded links (differential mode) conforming to EN/IEC 6		
Electromagnetic compatibility	EN/IEC 61000-4-6	
Disturbance radiated/conducted	CISPR 11	

Ordering and shipping details

Category	22532 - M258 PLC
Discount Schedule	PC12
GTIN	00785901988809
Nbr. of units in pkg.	1
Package weight(Lbs)	0.5100000000000001
Returnability	N
Country of origin	AT

Offer Sustainability

Sustainable offer status	Green Premium product Compliant - since 1039 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
RoHS (date code: YYWW)		
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available Product Environmental Profile	
Product end of life instructions	Available	
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	

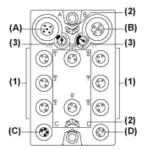
Contractual warranty

Product data sheet Presentation

TM7NCOM08B

TM7 CANopen Interface I/O Block

Description



- (A) CANopen bus IN connector
- (B) TM7 bus OUT connector
- (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector
- (1) Input / Output connectors
- (2) Status and channel LEDs
- (3) CANopen address settings rotary switches

Connector and Channel Assignments

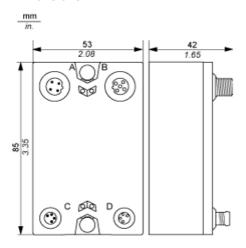
I/O connectors	Channel types	Channels
1	Input/Output	I0/Q0
2	Input/Output	I1/Q1
3	Input/Output	12/Q2
4	Input/Output	13/Q3
5	Input/Output	14/Q4
6	Input/Output	15/Q5
7	Input/Output	I6/Q6
8	Input/Output	17/Q7

Product data sheet Dimensions Drawings

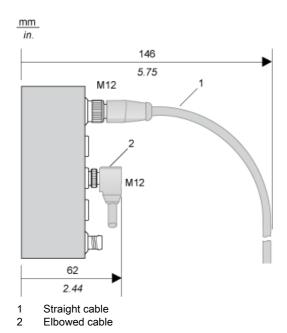
TM7NCOM08B

TM7 Block, Size 1

Dimensions

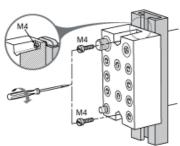


Spacing Requirements



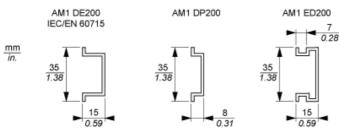
Installation Guidelines

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

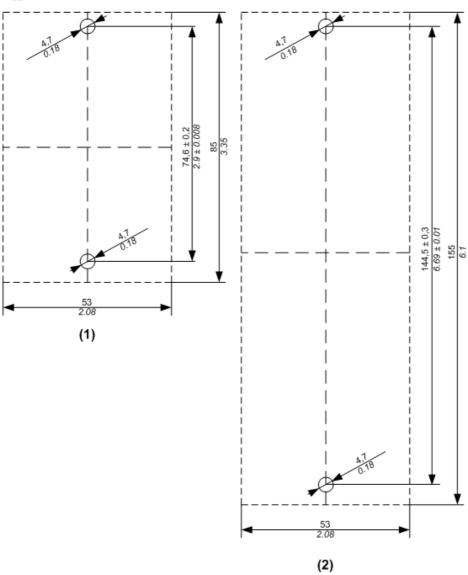


NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

TM7 Block Directly on the Machine

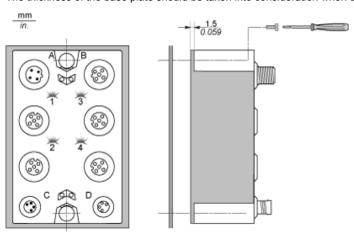
Drilling template of the block:





- (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).

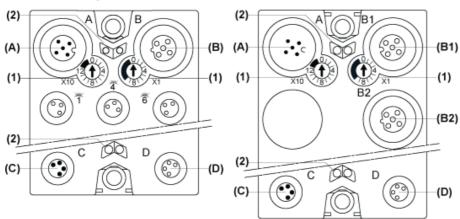
Wiring Diagram

Pin Assignments for I/O Connectors

Connection	Pin	Designation
3 4	1	24 Vdc sensor / actuator supply
3	0 Vdc	
4	DI/DO: input/ output signal	

CANopen Pins and Connectors

Connector Assignments



- (A) Field bus IN connector
- (B) TM7 bus OUT connector M12

and (B2)

- (B1) CANopen bus OUT connector M12
- (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector
- (1) Address settings rotary switches
- (2) Status LEDs

Pin Assignments

Connectors	Pin	Designation
A 3	1	CAN_SHLD
2	(CAN_V+)	
3	CAN_GND	
4	CAN_H	
5	CAN_L	

Connectors	Pin	Designation
B / B2 3 2 2 4 5 5	1	TM7 V+
2	TM7 Bus Data	
3	TM7 0V	
4	TM7 Bus Data	
5	N.C.	
B1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	CAN_SHLD
2	(CAN_V+)	
3	CAN_GND	
4	CAN_H	
5	CAN_L	
Connectors	Pin	Designation
C 1 2 2 4	1	24 Vdc main power
2	24 Vdc I/O power segment	
3	0 Vdc	
4	0 Vdc	
D 2	1	24 Vdc I/O power segment

Wiring the Power Supply

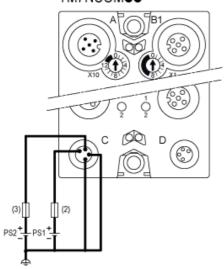
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Connections	2 Power Supplies
24 Vdc main power that generates power for TM7 power bus	PS1
24 Vdc I/O power segment	PS2

24 Vdc I/O power segment

0 Vdc 0 Vdc

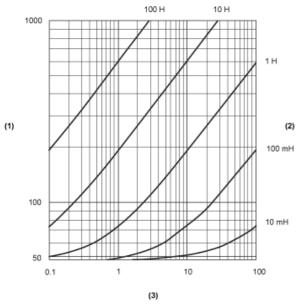
TM7NCOM●●



- (2) External fuse, Type T slow-blow, 1 A, 250 V $^{\rm 1}$ External fuse, Type T slow-blow, 4 A max., 250 V
- (3)
- PS1 External isolated main power supply, 24 Vdc PS2 External isolated I/O power supply, 24 Vdc

¹ Fuse limited to 1 A per PDB, maximum fuse limited to 5 A with maximum 4 PDB interconnected. If less then 4 PDBs size the fuse in accordance with the number of PDBs.

Switching Inductive Load Characteristics



- Load resistance in $\boldsymbol{\Omega}$
- Load inductance in H
- (2) (3) Max. operating cycles / second

Mouser Electronics

Authorized Distributor

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