



## 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 splitter box	4 I

## Complementary

Analogue input number	4
Analogue input type	Voltage
Analogue input range	+/- 10 V
Analogue input resolution	11 bits + sign
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 4 female connectors M12 - A coding - 5 ways sensor
Local signalling	2 LEDs bus diagnostic 2 LEDs sensor/actuator power supply status
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	C-Tick CURus GOST-R ATEX II 3g EEx nA II T5
marking	CE
ambient air temperature for operation	14...140 °F (-10...60 °C)
ambient air temperature for storage	-13...185 °F (-25...85 °C)
relative humidity	5...95 % without condensation or dripping water
pollution degree	2 conforming to IEC 60664
IP degree of protection	IP67 conforming to IEC 61131-2
operating altitude	0...6561.68 ft (0...2000 m)
storage altitude	0...9842.52 ft (0...3000 m)
vibration resistance	7.5 mm constant amplitude (f = 2...8 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn constant acceleration (f = 8...200 Hz) conforming to IEC 60721-3-5 Class 5M3 4 gn constant acceleration (f = 200...500 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	8 kV in air conforming to EN/IEC 61000-4-2 6 kV in contact conforming to EN/IEC 61000-4-2
resistance to electromagnetic fields	9.14 V/yd (10 V/m) (f = 0.08...2 Hz conforming to EN/IEC 61000-4-3)

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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	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

## Offer Sustainability

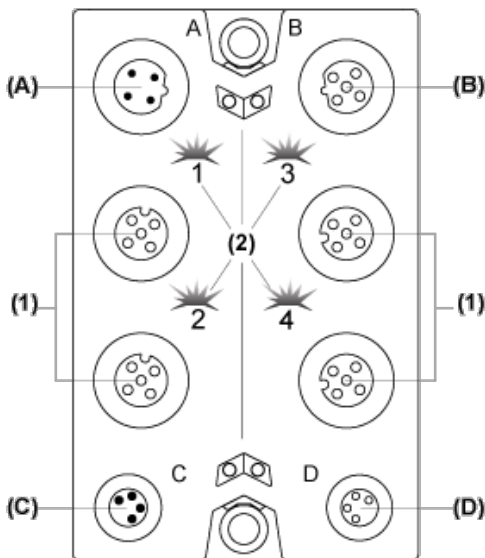
Green Premium product	Green Premium product
Compliant - since 1039 - Schneider Electric declaration of conformity	Compliant - since 1039 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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.	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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	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

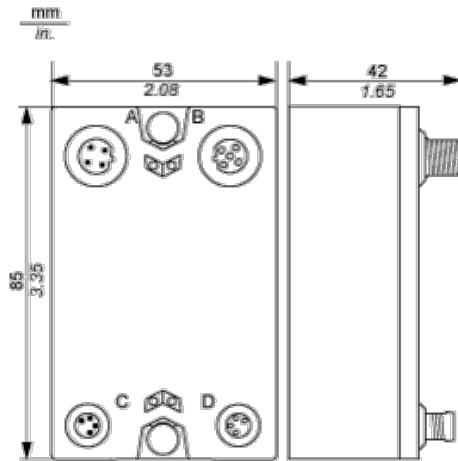
### Connector and Channel Assignments

Input connectors	Channel type	Channels
1	Input	10

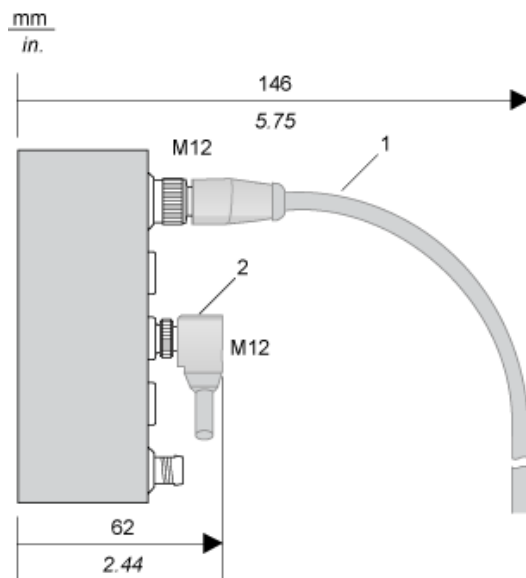
2	Input	I1
3	Input	I2
4	Input	I3

## TM7 Block, Size 1

### Dimensions



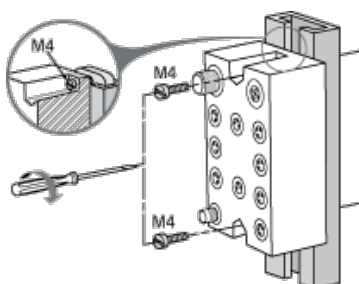
### Spacing Requirements



- 1 Straight cable
- 2 Elbowed cable

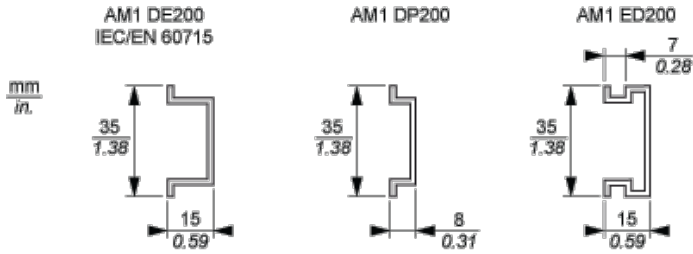
### Installation Guidelines

#### 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**

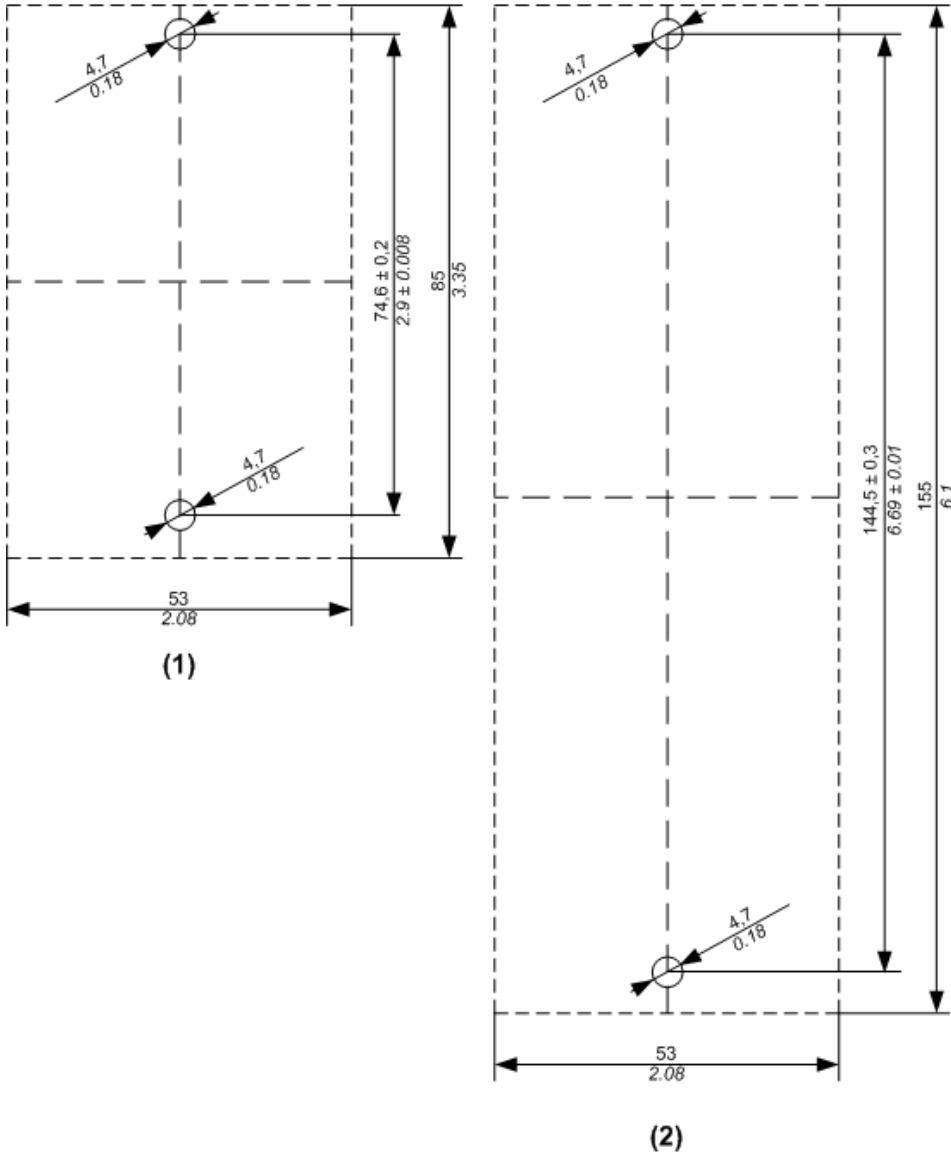


NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

**TM7 Block Directly on the Machine**

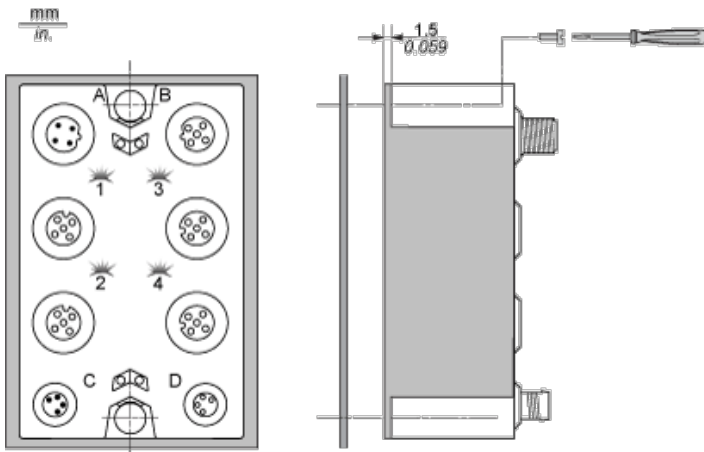
Drilling template of the block:

mm  
in.



- (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

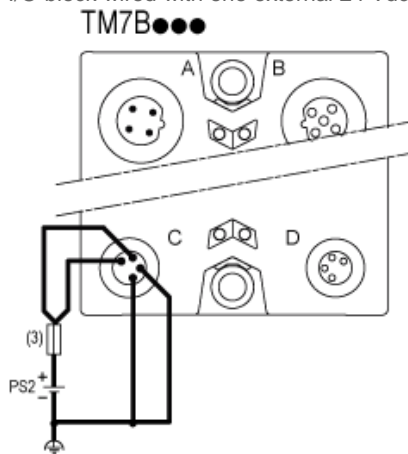
### Pin Assignments for Input Connectors

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:



(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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