Product data sheet
Characteristics

TM7SPS1A
Power distribution module, Modicon TM7, supply 24 V, 15 W

Main

Range of product	Modicon TM7
Product or component type	Power distribution module
Range compatibility	Modicon LMC058 Modicon M258
Product compatibility	Motion controller Logic controller
Product specific application	Supply 24 V DC I/O modules and bus TM7
[Us] rated supply voltage	24 V
Supply circuit type	DC
Electrical connection	1 male + 1 female connectors M8 (power supply) 1 male + 1 female connectors M12 (TM7 bus)

Complementary

Local signalling	2 LEDs for sensor/actuator power supply status
Nominal power	15 W
Operating position	Any position
Fixing mode	By 2 screws
Net weight	0.19 kg

Environment

Standards	IEC 61131-2
Product certifications	C-Tick ATEX II 3g EEx nA II T5 GOST-R CURus
Marking	CE
Ambient air temperature for operation	-10…60 °C
Ambient air temperature for storage	-25…85 °C
Relative humidity	5…95 % without condensation
Operating altitude	0...2000 m
Storage altitude	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 for 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	10 V/M 0.08…2 Hz conforming to EN/IEC 61000-4-3 1 V/m 2…2.7 Hz conforming to EN/IEC 61000-4-3
Resistance to fast transients	2 KV (power supply) conforming to EN/IEC 61000-4-4 1 KV (input/output) conforming to EN/IEC 61000-4-4 1 kV (shielded cable) conforming to EN/IEC 61000-4-4
Surge withstand	0.5 KV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5
Electromagnetic compatibility	EN/IEC 61000-4-6
Disturbance radiated/conducted	CISPR 11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	212 g
Package 1 Height	4.9 cm
Package 1 width	5.8 cm
Package 1 Length	10.8 cm

Offer Sustainability

Sustainable offer status	Green Premium product
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

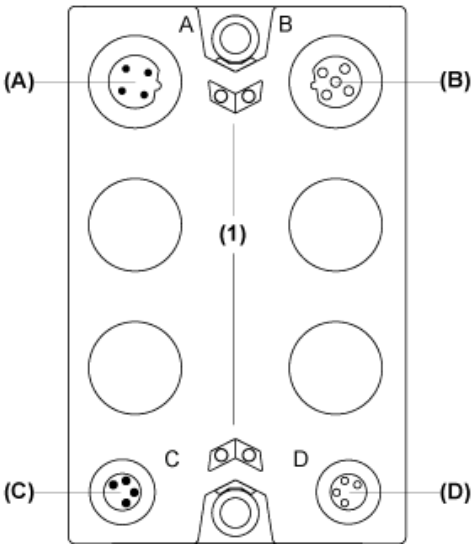
Contractual warranty

Warranty	18 months

TM7SPS1A

TM7 Power Distribution Block (PDB)

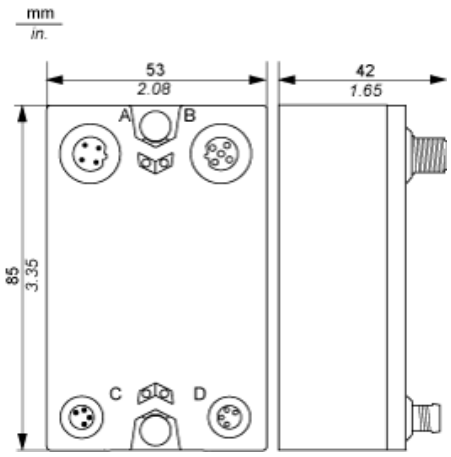
Description



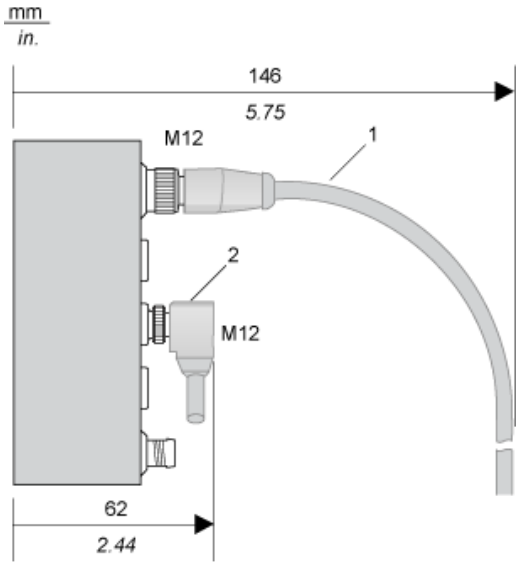
(A) TM7 bus IN connector
(B) TM7 bus OUT connector
(C) 24 Vdc power IN connector
(D) 24 Vdc power OUT connector
(1) Status LEDs

TM7 Block, Size 1

Dimensions



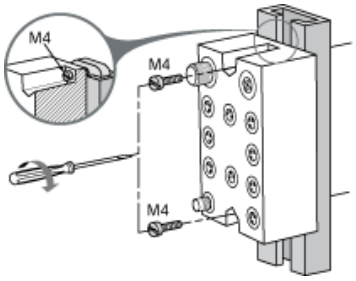
Spacing Requirements



1 Straight cable
2 Elbowed cable

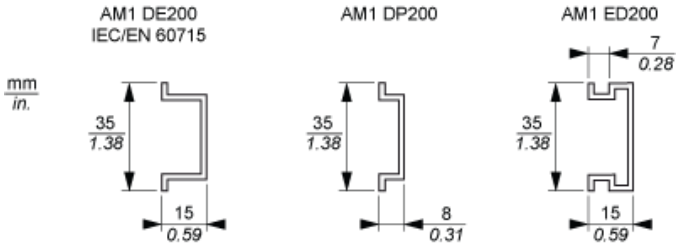
Installation Guidelines

TM7 Block on an Aluminium Frame



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

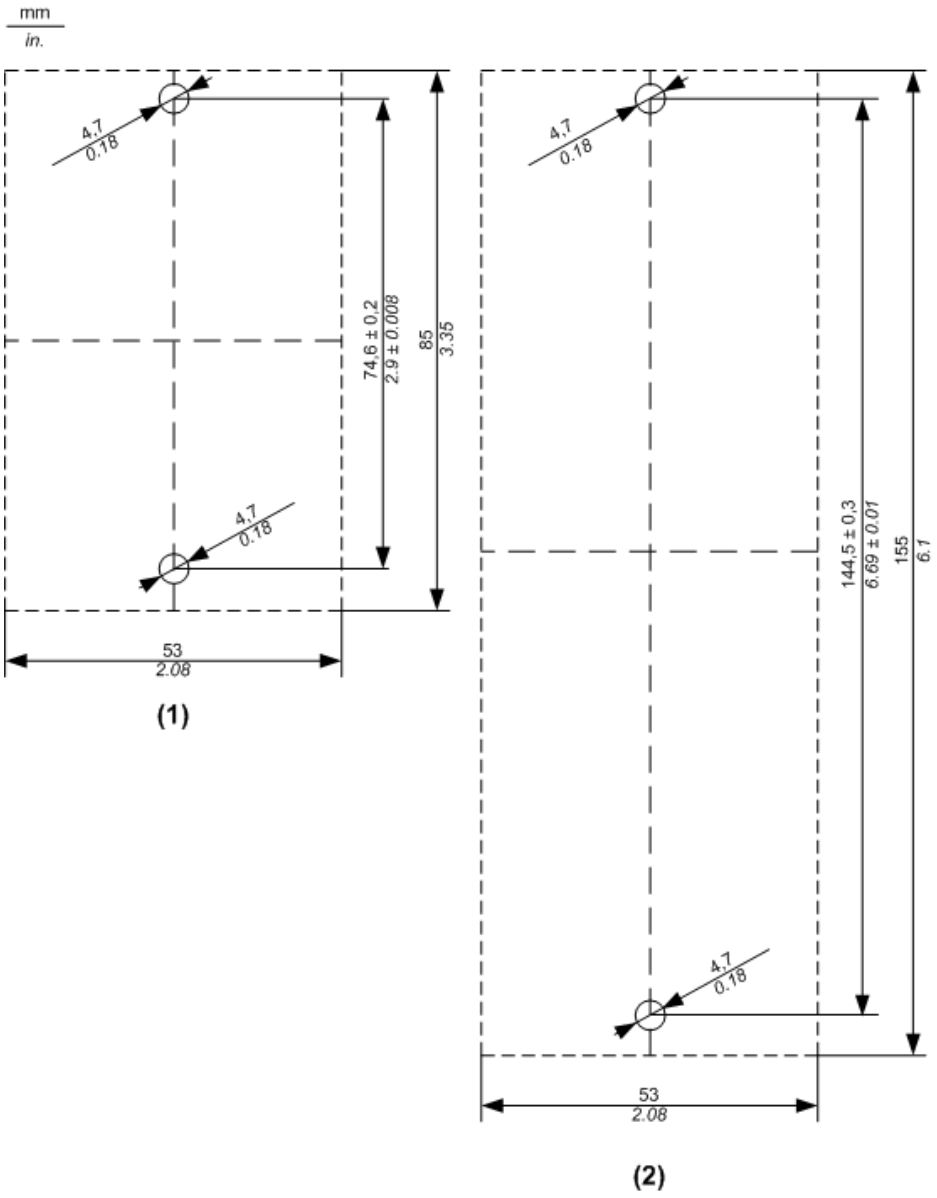
TM7 Block on a DIN Rail



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

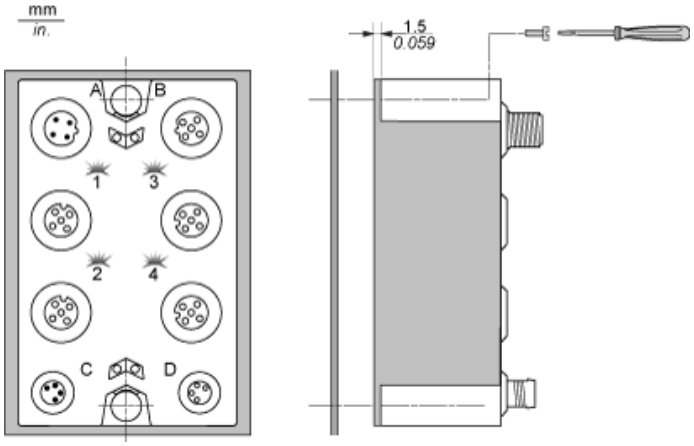
TM7 Block Directly on the Machine

Drilling template of the block:



(1) Size 1
(2) Size 2

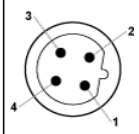
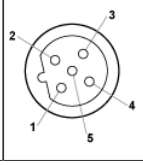
The thickness of the base plate should be taken into consideration when defining the screw length.

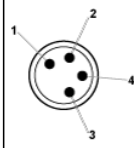
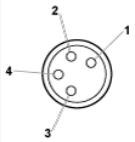


NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

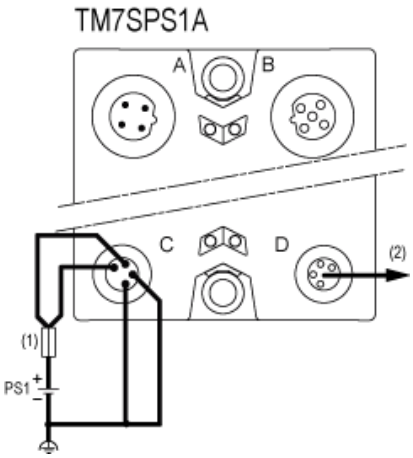
Wiring Diagram

Pin Assignments

TM7 bus IN connector (A)	Pin	Designation	TM7 bus OUT connector (B)
	1	TM7 V+	
2	TM7 Bus Data		
3	TM7 0V		
4	$\overline{\text{TM7 Bus Data}}$		
5	N.C.		

Power IN connector (C)	Pin	Designation	Power OUT connector (D)
	1	24 Vdc Main power	
2	24 Vdc Main power		
3	0 Vdc		
4	0 Vdc		

Wiring the Power Supply



(1) External fuse, Type T slow-blow, 1 A minimum, 4 A maximum, 250 V
(2) Maximum current 4 A
PS1 External isolated main power supply, 24 Vdc