

TM7BDI8B

blok proširenja – TM7 – IP67 – 8 DI – 24 V DC – konektor M8



Glavno

| | |
|-------------------------------------|--------------------------------|
| Range of product | Modicon TM7 |
| Product or component type | Discrete I/O expansion block |
| Range compatibility | Modicon LMC058 Modicon M258 |
| Enclosure material | Plastic |
| Bus type | TM7 bus |
| [Ue] rated operational voltage | 24 V DC |
| Input/output number | 8 |
| Input/output number of splitter box | 8 I |

Komplementarno

| | |
|-----------------------------|--|
| Discrete input number | 8 input(s) |
| Discrete input voltage | 24 V |
| Discrete input voltage type | DC |
| Discrete input current | 7 mA |
| Discrete input logic | Positive |
| 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 for power IN 1 female connector M8 - 4 ways for power OUT 1 male connector M12 - B coding - 4 ways for bus IN 1 female connector M12 - B coding - 4 ways for bus OUT 8 female connectors M8 - 3 ways for sensor |
| Local signalling | 2 LEDs for bus diagnostic 2 LEDs for sensor power supply diagnostics |
| Operating position | Any position |
| Fixing mode | By 2 screws |
| Product weight | 0.18 kg |

Okolina

| | |
|---------------------------------------|--|
| 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 | -10...60 °C |
| ambient air temperature for storage | -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...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 |

Informacije dane u ovoj dokumentaciji sadrže opće opise i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda. Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene. Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i poplunu analizu rizika, procjenu i ispitivanje specifičnu primjenu ili uporabu istog. Niti društvo Schneider Electric, Industries SAS niti bilo koje od njegovih povezanih poduzeća ili podružnica neće preuzeti obvezu ili snositi odgovornost za pogrešnu upotrebu ovdje sadržanih informacija.

electromagnetic compatibility

Conducted and radiated emissions conforming to CISPR 11
 Conducted RF disturbances conforming to EN/IEC 61000-4-6
 Electrostatic discharge immunity test (level: 4 kV - on contact) conforming to EN/IEC 61000-4-2
 Electrostatic discharge immunity test (level: 8 kV - in air) conforming to EN/IEC 61000-4-2
 Susceptibility to electromagnetic fields (level: 1 V/m - 2...2.7 GHz) conforming to EN/IEC 61000-4-3
 Susceptibility to electromagnetic fields (level: 10 V/m - 80...2000 MHz) conforming to EN/IEC 61000-4-3
 Electrical fast transient/burst immunity test (level: 2 kV - power supply) conforming to EN/IEC 61000-4-4
 Electrical fast transient/burst immunity test (level: 1 kV - input/output) conforming to EN/IEC 61000-4-4
 Electrical fast transient/burst immunity test (level: 1 kV - shielded cable) conforming to EN/IEC 61000-4-4
 1.2/50 µs shock waves immunity test (level: 0.5 kV - power supply (common mode)) conforming to EN/IEC 61000-4-5
 1.2/50 µs shock waves immunity test (level: 1 kV - power supply (differential mode)) conforming to EN/IEC 61000-4-5
 1.2/50 µs shock waves immunity test (level: 0.5 kV - unshielded links (common mode)) conforming to EN/IEC 61000-4-5
 1.2/50 µs shock waves immunity test (level: 1 kV - unshielded links (differential mode)) conforming to EN/IEC 61000-4-5
 1.2/50 µs shock waves immunity test (level: 0.5 kV - shielded links (common mode)) conforming to EN/IEC 61000-4-5
 1.2/50 µs shock waves immunity test (level: 1 kV - shielded links (differential mode)) conforming to EN/IEC 61000-4-5

Offer Sustainability

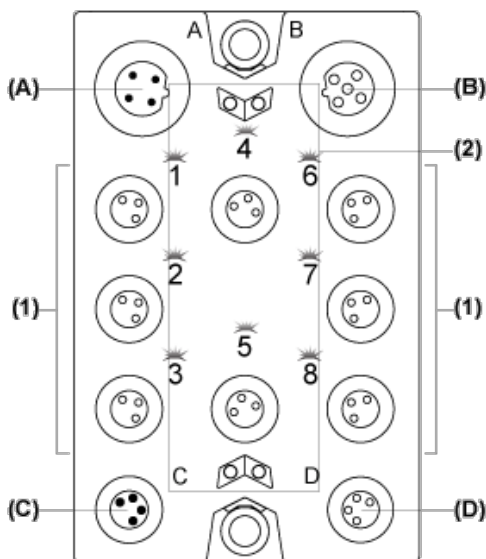
| | |
|---|---|
| Green Premium product | Green Premium product |
| Compliant - since 1039 - Schneider Electric declaration of conformity | Compliant - since 1039 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Digital 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

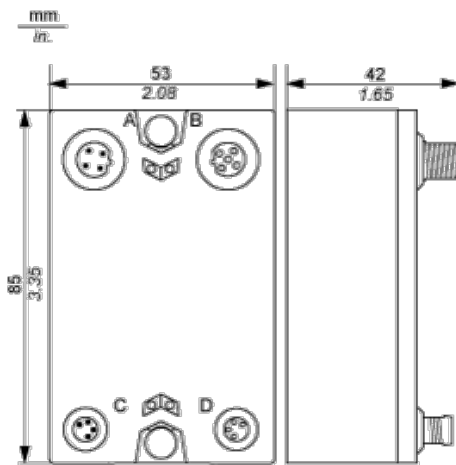
(2) Status LEDs

Connector and Channel Assignments

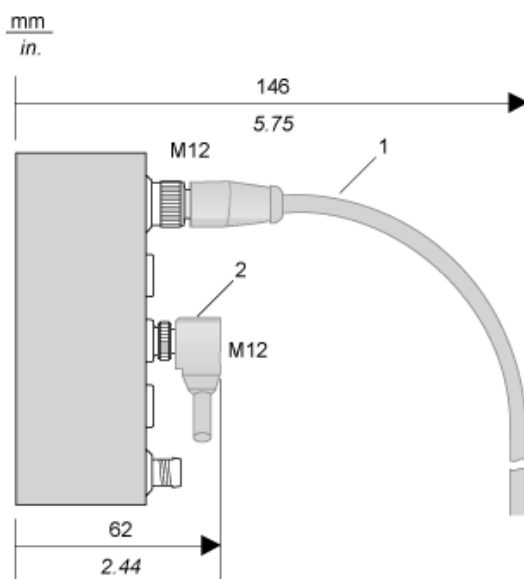
| Input connectors | Channel type | Channels |
|------------------|--------------|----------|
| 1 | Input | I0 |
| 2 | Input | I1 |
| 3 | Input | I2 |
| 4 | Input | I3 |
| 5 | Input | I4 |
| 6 | Input | I5 |
| 7 | Input | I6 |
| 8 | Input | I7 |

TM7 Block, Size 1

Dimensions



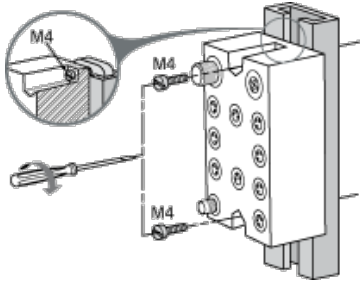
Spacing Requirements



- 1 Straight cable
- 2 Elbowed cable

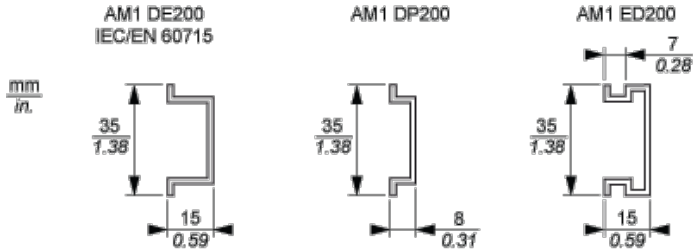
Installation Guidelines

TM7 Block on an Aluminium Frame



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

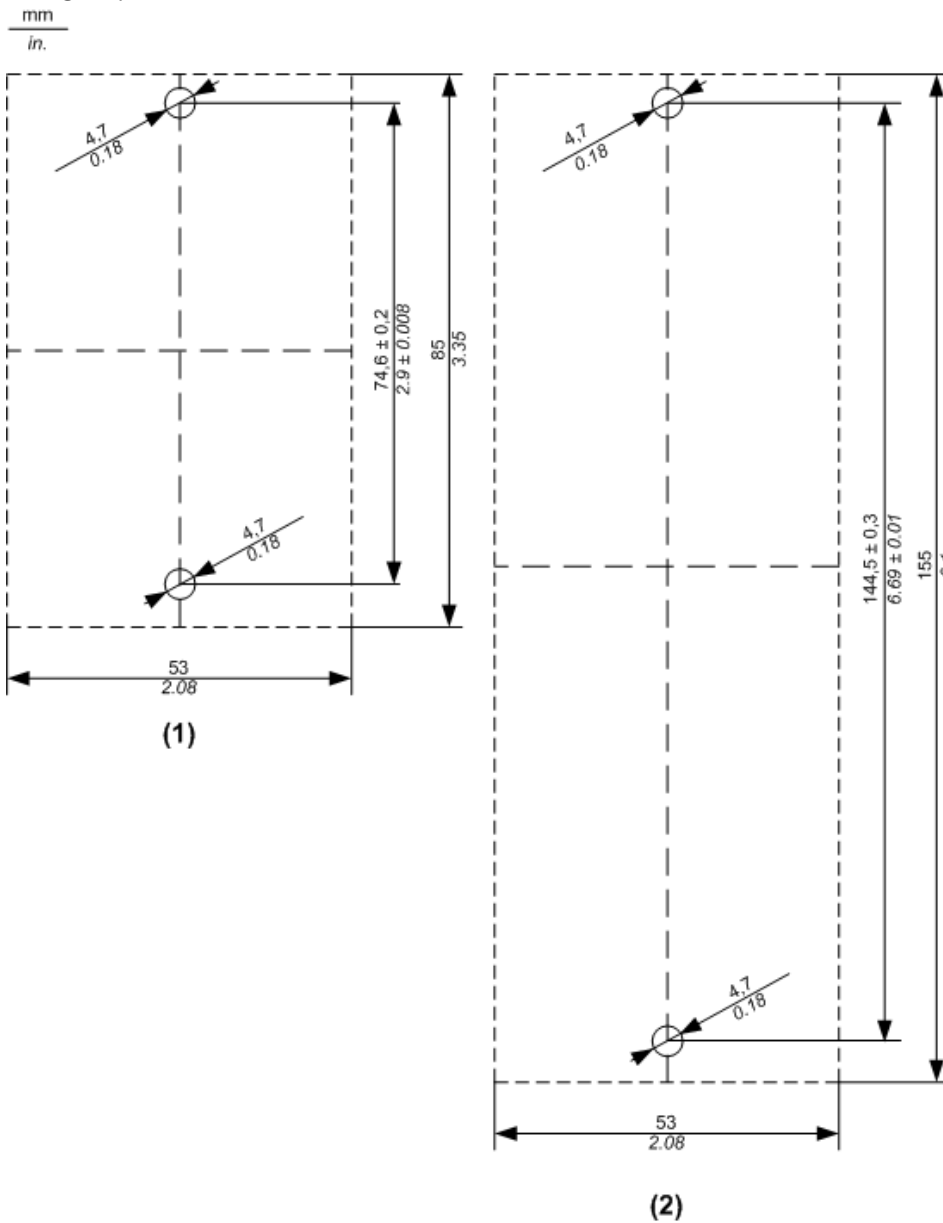
TM7 Block on a DIN Rail



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

TM7 Block Directly on the Machine

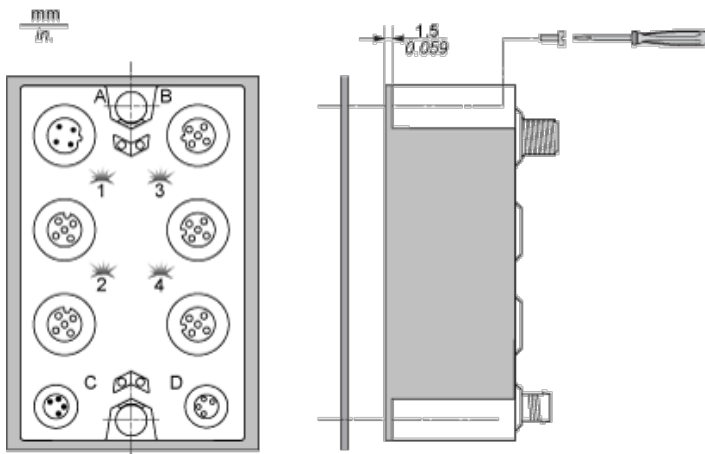
Drilling template of the block:



(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

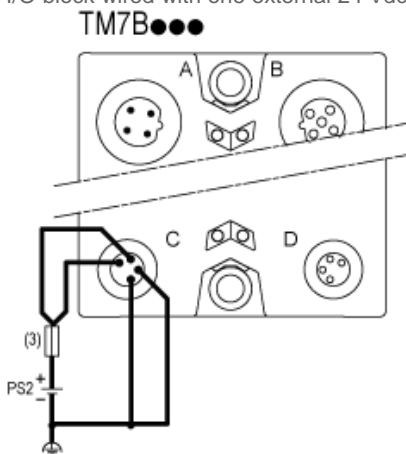
Pin Assignments for Input Connectors

| Connection | Pin | M8 Input |
|------------|-----|----------------------|
| | 1 | 24 Vdc sensor supply |
| | 3 | 0 Vdc |
| | 4 | DI: input signal |

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