# TM7SDM12DTFS

Safety discrete I/O expansion block, Modicon TM7, IP67, 8 DI/4 DO, 24 V DC, 2 A, M12 connector





## Main

| Range of product               | Modicon TM7                         |
|--------------------------------|-------------------------------------|
| Product or component type      | Safety discrete I/O expansion block |
| Range compatibility            | Modicon LMC058<br>Modicon M258      |
| Enclosure material             | Plastic                             |
| Bus type                       | TM7 bus                             |
| [Ue] rated operational voltage | 24 V DC                             |
| Input/output number            | 8                                   |
| Input/output number of block   | 81+40                               |

#### Complementary

| 08 configurable by software   |
|---|
| 24 V  |
| DC  |
| 3.3 mA  |
| Positive logic (sink)   |
| 04 at <= 2 A (configurable by software) 8 clock push-pull at <= 50 mA with short-circuit and thermal limit protection   |
| 24 V  |
| DC  |
| 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 M12 - A coding - 5 ways for digital I/O 1 male connector M8 - 4 ways for power IN 1 female connector M8 - 4 ways for power OUT |
| 2 LEDs for power supply status 2 LEDs for safety status 12 LEDs for input/output status   |
| Vertical or horizontal position   |
| By 2 screws   |
| 0.35 kg   |
| SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1   |
| PFD < 1E-5<br>MTTFd > 100 years<br>PFH < 1E-9   |
|   |

#### Environment

| Product certifications                | CULus  |  |
|---------------------------------------|--|--|
| Marking                               | CE   |  |
| Ambient air temperature for operation | 060 °C                                       |  |
| Ambient air temperature for storage   | -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            | 02000 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 for 11 ms conforming to IEC 60721-3-5 Class 5M3  |
| Electromagnetic compatibility | Electrostatic discharge immunity test, 4 kV on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 802000 MHz conforming to EN/ IEC 61000-4-3 Electrical fast transient/burst immunity test, 2 kV power supply conforming to EN/ IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV input/output conforming to EN/ IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to EN/IEC 61000-4-4 1.2/50 μs shock waves immunity test, 0.5 kV power supply (common mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 1 kV power supply (differential mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 0.5 kV unshielded links (common mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 1 kV unshielded links (differential mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 0.5 kV shielded links (common mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 1 kV shielded links (differential mode) conforming to EN/IEC 61000-4-5 1.2/50 μs shock waves immunity test, 1 kV shielded links (differential mode) conforming to EN/IEC 61000-4-5 Conducted RF disturbances conforming to EN/IEC 61000-4-6 |

### **Packing Units**

| 3                            |         |  |
|------------------------------|---------|--|
| Unit Type of Package 1       | PCE     |  |
| Number of Units in Package 1 | 1       |  |
| Package 1 Weight             | 374 g   |  |
| Package 1 Height             | 4.5 cm  |  |
| Package 1 width              | 5.5 cm  |  |
| Package 1 Length             | 17.5 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) EV 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 |
|----------|-----------|
|          |           |