



### Main

|                           |                       |
|---------------------------|-----------------------|
| Range of product          | Modicon TM5           |
| Product or component type | Discrete input module |
| Discrete input number     | 2                     |
| Discrete input voltage    | 24 V                  |

### Complementary

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Range compatibility         | Modicon LMC058<br>Modicon M258<br>PacDrive LMC motion controller                                    |
| Product compatibility       | Motion controller<br>Logic controller<br>PacDrive LMC Pro<br>PacDrive LMC Eco<br>PacDrive LMC Pro 2 |
| Discrete input voltage type | DC                                                                                                  |
| Input voltage limits        | 20.4...28.8 V                                                                                       |
| Discrete input logic        | Sink                                                                                                |
| Discrete input current      | 3.75 mA                                                                                             |
| Input impedance             | 6.4 kOhm                                                                                            |
| Color                       | White                                                                                               |
| Voltage state 0 guaranteed  | <= 5 V                                                                                              |
| Voltage state 1 guaranteed  | >= 15 V                                                                                             |
| Input filtering             | <= 25 ms configurable by software<br><= 100 ms hardware                                             |
| Protection type             | Overload protection<br>Short-circuit protection                                                     |
| Isolation                   | No insulation between channels<br>500 Vrms AC insulation between channel and bus                    |
| Voltage drop                | <= 2 V at 500 mA for sensor supply                                                                  |
| Supply current for sensors  | 500 mA                                                                                              |
| Current consumption         | 12 mA 24 V DC all inputs On<br>24 mA 5 V DC bus                                                     |
| Power dissipation in W      | <= 0.41 W                                                                                           |
| Local signalling            | 1 LED green power supply<br>1 LED red power supply<br>2 LEDs green input status                     |
| Electrical connection       | 3 wires                                                                                             |
| Marking                     | CE                                                                                                  |
| Product weight              | 0.06 lb(US) (0.025 kg)                                                                              |

### Environment

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| standards              | CSA C22.2 No 142<br>IEC 61131-2<br>UL 508<br>CSA C22.2 No 213 |
| product certifications | CSA                                                           |

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|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | C-Tick<br>CULus<br>GOST-R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ambient air temperature for operation | 14...122 °F (-10...50 °C) vertical installation<br>14...140 °F (-10...60 °C) with derating factor horizontal installation<br>14...131 °F (-10...55 °C) without derating factor horizontal installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| relative humidity                     | 5...95 % without condensation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IP degree of protection               | IP20 conforming to IEC 61131-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| pollution degree                      | 2 conforming to IEC 60664                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| operating altitude                    | 0...6561.68 ft (0...2000 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| storage altitude                      | 0...9842.52 ft (0...3000 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| vibration resistance                  | 1 gn (f = 8.4...150 Hz) DIN rail<br>3.5 mm (f = 5...8.4 Hz) DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| shock resistance                      | 15 gn 11 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| electromagnetic compatibility         | Conducted and radiated emissions conforming to CISPR 11<br>Conducted RF disturbances conforming to EN/IEC 61000-4-6<br>Electrostatic discharge immunity test (4 kV - on contact) conforming to EN/IEC 61000-4-2<br>Electrostatic discharge immunity test (8 kV - in air) conforming to EN/IEC 61000-4-2<br>Susceptibility to electromagnetic fields (1 V/m - 2...2.7 GHz) conforming to EN/IEC 61000-4-3<br>Susceptibility to electromagnetic fields (10 V/m - 80...2000 MHz) conforming to EN/IEC 61000-4-3<br>Electrical fast transient/burst immunity test (1 kV - I/O) conforming to EN/IEC 61000-4-4<br>Electrical fast transient/burst immunity test (1 kV - shielded cable) conforming to EN/IEC 61000-4-4<br>Electrical fast transient/burst immunity test (2 kV - power lines) conforming to EN/IEC 61000-4-4<br>1.2/50 µs shock waves immunity test (0.5 kV - differential mode) conforming to EN/IEC 61000-4-5<br>1.2/50 µs shock waves immunity test (1 kV - common mode) conforming to EN/IEC 61000-4-5 |

## Offer Sustainability

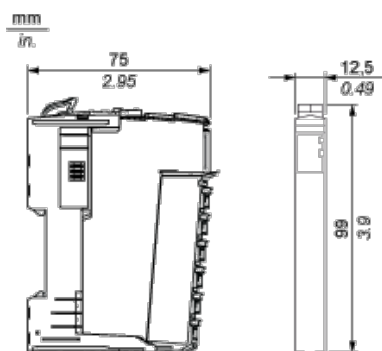
|                                                                                                                                  |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                        |
| 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 |
|-----------------|-----------|

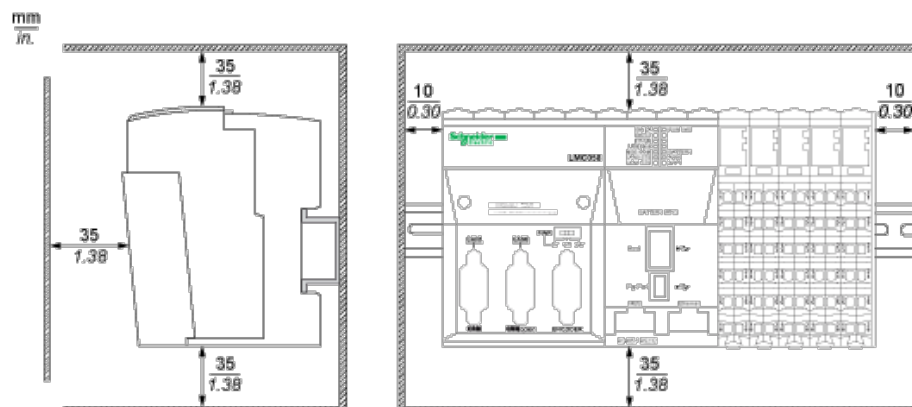
## TM5 Slice

### Dimensions

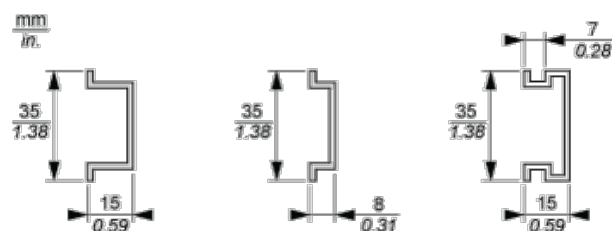


## TM5 System

### Spacing Requirements



### Mounting on a DIN Rail



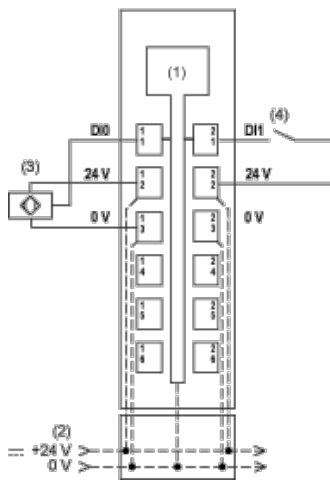
## TM5 System Wiring Recommendations

### Wire Sizes to Use with the Removable Spring Terminal Blocks

| mm<br>in.       | 0.35<br>9  |            |            |                     |  |
|-----------------|------------|------------|------------|---------------------|--|
| mm <sup>2</sup> | 0,08...2,5 | 0,25...2,5 | 0,25...1,5 | 2 x 0,25...2 x 0,75 |  |
| AWG             | 28...14    | 24...14    | 24...16    | 2 x 24...2 x 18     |  |

## Electronic Module 2DI 24 Vdc Sink 3 Wires

### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 3-wire sensor
- (4) 2-wire sensor



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Электрон  
Связь**

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