

# TM5SBET1

remote transmitter module - communication  
between remote I/O



## Main

|                              |                                  |
|------------------------------|----------------------------------|
| Range of product             | Modicon TM5                      |
| Product or component type    | Remote transmitter module        |
| Product specific application | Communication between remote I/O |

## Complementary

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Range compatibility    | Modicon LMC058<br>Modicon M258                                                                        |
| Product compatibility  | Motion controller<br>Logic controller                                                                 |
| Colour                 | White                                                                                                 |
| Bus length             | <= 2500 m                                                                                             |
| Cable length           | <= 100 m                                                                                              |
| Current consumption    | 100 mA 5 V DC bus<br>25 mA 24 V DC input/output                                                       |
| Power dissipation in W | <= 1.1 W                                                                                              |
| Local signalling       | 1 LED yellow for communication data bus<br>1 LED red for power supply<br>1 LED green for power supply |
| Marking                | CE                                                                                                    |
| Product weight         | 0.025 kg                                                                                              |

## Environment

|                                       |                                                                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | CSA 22-2 No 142<br>IEC 61131-2<br>UL 508<br>CSA 22-2 No 213                                                                                            |
| Product certifications                | CSA<br>C-Tick<br>CULus<br>GOST-R                                                                                                                       |
| Ambient air temperature for operation | 0...60 °C with derating factor horizontal installation<br>0...55 °C without derating factor horizontal installation<br>0...50 °C vertical installation |
| Ambient air temperature for storage   | -25...70 °C                                                                                                                                            |
| Relative humidity                     | 5...95 % without condensation                                                                                                                          |
| IP degree of protection               | IP67<br>IP20 conforming to IEC 61131-2                                                                                                                 |
| Pollution degree                      | 2 conforming to IEC 60664                                                                                                                              |
| Operating altitude                    | 0...2000 m                                                                                                                                             |
| Storage altitude                      | 0...3000 m                                                                                                                                             |
| Vibration resistance                  | 3.5 mm 5...8.4 Hz DIN rail<br>1 gn 8.4...150 Hz DIN rail                                                                                               |
| Shock resistance                      | 15 gn for 11 ms                                                                                                                                        |

|                                       |                                                                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Resistance to electrostatic discharge | 8 kV in air conforming to EN/IEC 61000-4-2<br>4 kV on contact conforming to EN/IEC 61000-4-2                                                     |
| Resistance to electromagnetic fields  | 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3<br>1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3                                          |
| Resistance to fast transients         | 2 kV power lines conforming to EN/IEC 61000-4-4<br>1 kV shielded cable conforming to EN/IEC 61000-4-4<br>1 kV I/O conforming to EN/IEC 61000-4-4 |
| Surge withstand                       | 1 kV common mode conforming to EN/IEC 61000-4-5<br>0.5 kV differential mode conforming to EN/IEC 61000-4-5                                       |
| Electromagnetic compatibility         | EN/IEC 61000-4-6                                                                                                                                 |
| Disturbance radiated/conducted        | CISPR11                                                                                                                                          |

### Offer Sustainability

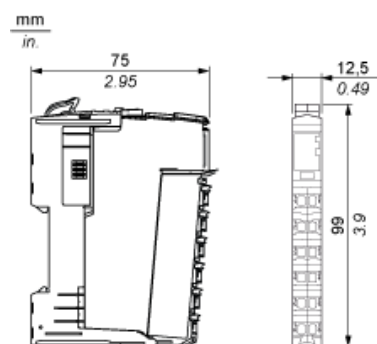
|                          |                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Not Green Premium product                                                                                                |
| RoHS                     | Compliant - since 1039 - Schneider Electric declaration of conformity <a href="#">download declaration of conformity</a> |

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TM5 Slice

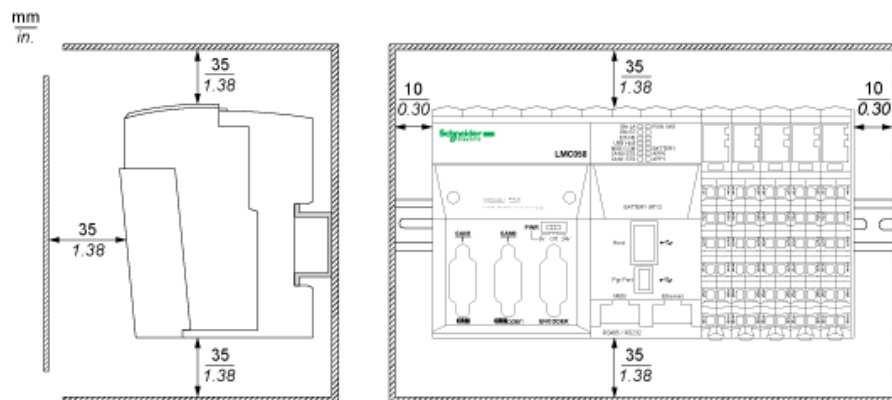
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Dimensions

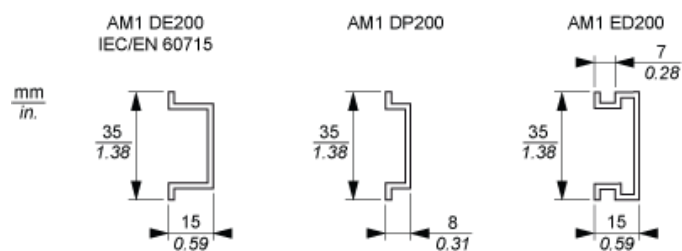


## TM5 System

### Spacing Requirements



### Mounting on a DIN Rail



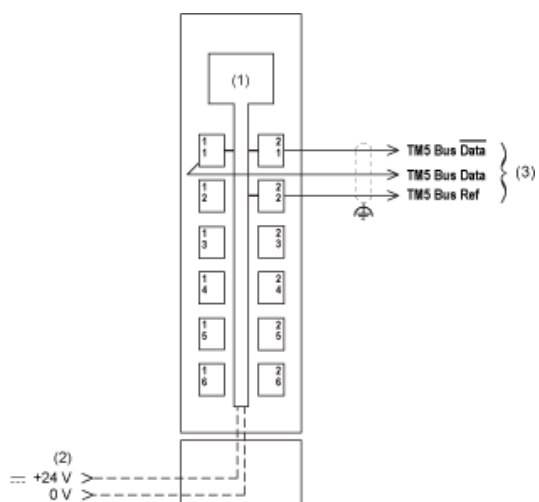
## TM5 System Wiring Recommendations

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

| mm<br>in.       |  |  |  |  |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 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                                                                   |

## Transmitter Electronic Module

### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) TM5 expansion bus cable (TCSXCNNXNX100)