



### Main

|                           |                           |
|---------------------------|---------------------------|
| Product or component type | Ethernet unmanaged switch |
|---------------------------|---------------------------|

### Complementary

|                               |   |
|-------------------------------|---|
| Range compatibility           | Modicon M241<br>Modicon M251  |
| Product compatibility         | Modicon M241 logic controller<br>Modicon M251 logic controller  |
| Current consumption           | 360 mA at 5 V DC for communication bus  |
| Integrated connection type    | 4 RJ45 Ethernet   |
| Transmission rate             | 10/100 Mbit/s   |
| Port Ethernet                 | 10BASE-T/100BASE-TX - 4 port(s) copper cable  |
| Web services                  | Web server  |
| Communication service         | FTP<br>SNMP<br>DHCP client<br>Modbus TCP server<br>Modbus TCP client<br>IEC VAR ACCESS<br>Modbus TCP slave device<br>Ethernet/IP slave device<br>NGVL<br>Programming<br>Downloading<br>Updating firmware<br>Monitoring  |
| Maximum number of connections | 8 Modbus server<br>16 Ethernet/IP device  |
| Communication port protocol   | SNMP<br>TCP (Transmission Control Protocol)<br>UDP (User Datagram Protocol)<br>Ethernet IP/Modbus TCP   |
| Redundancy                    | No  |
| Local signalling              | 1 LED green for PWR<br>1 LED per channel green/yellow for Ethernet link<br>1 LED per channel green for Ethernet port activity   |
| Electrical connection         | RJ45 - 4 connectors for connecting Ethernet network<br>Screw connector - terminal for connecting the functional ground  |
| Marking                       | CE  |
| Surge withstand               | 1 kV (power lines (DC)) with common mode protection conforming to EN/IEC 61000-4-5<br>2 kV (power lines (AC)) with common mode protection conforming to EN/IEC 61000-4-5<br>2 kV (relay output) with common mode protection conforming to EN/IEC 61000-4-5<br>1 kV (I/O) with common mode protection conforming to EN/IEC 61000-4-5<br>1 kV (shielded cable) with common mode protection conforming to EN/IEC 61000-4-5<br>0.5 kV (power lines (DC)) with differential mode protection conforming to EN/IEC 61000-4-5<br>1 kV (power lines (AC)) with differential mode protection conforming to EN/IEC |

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|                  |  |
|------------------|--|
|                  | 61000-4-5<br>1 kV (relay output) with differential mode protection conforming to EN/IEC 61000-4-5<br>0.5 kV (I/O) with differential mode protection conforming to EN/IEC 61000-4-5 |
| Mounting support | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>Plate or panel with fixing kit  |
| Width            | 25 mm  |
| Height           | 90 mm  |
| Depth            | 90 mm  |
| Product weight   | 0.125 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| standards                             | EN/IEC 61131-2<br>UL 508   |
| product certifications                | C-Tick<br>CULus  |
| resistance to electrostatic discharge | 4 kV (on contact) conforming to EN/IEC 61000-4-2<br>8 kV (in air) conforming to EN/IEC 61000-4-2<br>8 kV (in air) conforming to Marine specification (LR, ABS, DNV, GL)<br>6 kV (on contact) conforming to Marine specification (LR, ABS, DNV, GL)   |
| resistance to electromagnetic fields  | 1 V/m (2...2.7 GHz) conforming to EN/IEC 61000-4-3<br>10 V/m (80 MHz...1 GHz) conforming to EN/IEC 61000-4-3<br>3 V/m (1.4 GHz...2 GHz) conforming to EN/IEC 61000-4-3   |
| resistance to fast transients         | 2 kV (power lines) conforming to EN/IEC 61000-4-4<br>2 kV (relay output) conforming to EN/IEC 61000-4-4<br>1.5 kV (I/O) conforming to EN/IEC 61000-4-4<br>1 kV (Ethernet line) conforming to EN/IEC 61000-4-4<br>1 kV (serial link) conforming to EN/IEC 61000-4-4   |
| resistance to conducted disturbances  | 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6<br>3 V (0.1...80 MHz) conforming to Marine specification (LR, ABS, DNV, GL)<br>10 V (spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz)) conforming to Marine specification (LR, ABS, DNV, GL)   |
| electromagnetic emission              | Conducted emissions - test level: 120...69 dB $\mu$ V/m QP ( power lines) at 10...150 kHz conforming to EN/IEC 55011<br>Conducted emissions - test level: 79 dB $\mu$ V/m QP/66 dB $\mu$ V/m AV ( power lines (AC)) at 0.15...0.5 MHz conforming to EN/IEC 55011<br>Conducted emissions - test level: 73 dB $\mu$ V/m QP/60 dB $\mu$ V/m AV ( power lines (AC)) at 0.5...300 MHz conforming to EN/IEC 55011<br>Conducted emissions - test level: 63 dB $\mu$ V/m QP ( power lines) at 1.5...30 MHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 40 dB $\mu$ V/m QP class A at 30...230 MHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 60...54 dB $\mu$ V/m QP at 30...100 MHz conforming to Marine specification (LR, ABS, DNV, GL)<br>Radiated emissions - test level: 24 dB $\mu$ V/m QP at 156...165 MHz conforming to Marine specification (LR, ABS, DNV, GL)<br>Conducted emissions - test level: 79...63 dB $\mu$ V/m QP ( power lines) at 150...1500 kHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 47 dB $\mu$ V/m QP class A at 230...1000 MHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 80...50 dB $\mu$ V/m QP at 150...30000 kHz conforming to Marine specification (LR, ABS, DNV, GL)<br>Radiated emissions - test level: 54 dB $\mu$ V/m QP at 100...2000 MHz conforming to Marine specification (LR, ABS, DNV, GL) |
| ambient air temperature for operation | -10...50 °C vertical installation<br>-10...55 °C horizontal installation   |
| ambient air temperature for storage   | -25...70 °C  |
| relative humidity                     | 10...95 % without condensation in operation<br>10...95 % without condensation in storage   |
| IP degree of protection               | IP20 with protective cover in place  |
| pollution degree                      | 2  |
| operating altitude                    | 0...2000 m   |
| storage altitude                      | 0...3000 m   |
| vibration resistance                  | 1 mm at 5...13.2 Hz on symmetrical rail<br>3 gn at 8.7...150 Hz on symmetrical rail<br>1 mm at 5...13.2 Hz on panel mounting<br>0.7 gn at 13.2...100 Hz on panel mounting  |
| shock resistance                      | 15 gn during 11 ms   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1408 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |