

IE-SWM-SL04-4SC

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Features of SubstationLine managed switch series

The SubstationLine includes Ethernet switches complying with the IEC 61850-3 and IEEE 1613 standards, making them robust enough for operation in harsh environments.

The family includes variants for mounting on DIN rails and in 19" racks.

All products have a redundant power supply to ensure reliability in critical environments. The new family ranges from managed Fast Ethernet switches to 10-Gigabit Ethernet products with all the necessary features to operate according to the most demanding requirements.

- DIN-rail and 19" rack variants
- IEC 61850-3 and IEEE 1613 compliance
- PRP/HSR support according to Clause 4/Clause 5 of IEC 62439-3
- MMS server based on bridge model defined in IEC 61850-90-4
- Redundant power supply modules in all models
- Wide operating temperature range of -40°C up to 85°C
- Modular switch version with high flexibility in number and type of ports
- Fast/Gigabit/10-Gigabit interfaces
- Layer 3 models for hardware supported routing between up to 28 IP-subnets

General ordering data

| | |
|------------|---|
| Version | Media interface module for modular switch, Fast Ethernet, Number of ports: 4x SC Multi-mode, -40 °C...85 °C |
| Order No. | 2779170000 |
| Type | IE-SWM-SL04-4SC |
| GTIN (EAN) | 4064675048534 |
| Qty. | 1 items |

Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 107 mm | Depth (inches) | 4.2126 inch |
| Height | 40.7 mm | Height (inches) | 1.6024 inch |
| Width | 99 mm | Width (inches) | 3.8976 inch |
| Net weight | 348 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...85 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

Environmental Product Compliance

| | |
|--------------------------------------|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7cl |
| REACH SVHC | Lead monoxide 1317-36-8, Diboron trioxide 1303-86-2 |
| SCIP | 446a3fc1-a9f4-43f5-a3e2-56a5c8ce1315 |

Environmental conditions

| | | |
|-----------------------------|----------------------------|--|
| Operating temperature, max. | 85 °C | |
| Operating temperature, min. | -40 °C | |
| Humidity | 5 to 95 % (non-condensing) | |
| Storage temperature, max. | 85 °C | |
| Storage temperature, min. | -40 °C | |
| Operating altitude | Altitude, max. | 2000 m |
| | Note | in acc. with UL |
| | Altitude, max. | 6000 m |
| | Note | for restrictions, see the manufacturer's declaration for operating altitude in section downloads |

Fibre optic transceiver characteristics

| | | | |
|-----------------------------|---------------|-----------|---------|
| Transmission rate | 100 MBit/s | | |
| Transceiver type | Multimode | | |
| Connector type | SC-Duplex | | |
| Transmission distance, typ. | 2 km | | |
| Wavelength | typ. | 1310 nm | |
| | Receive power | min. | -31 dBm |
| | | max. | 0 dBm |
| Transmission power | min. | -23.5 dBm | |
| | max. | -14 dBm | |
| Link-budget | 7.5 dB | | |

Technical data

Guarantee

Time interval 5 years

Interfaces

| | | | |
|-------------------|---|-----------------|------------------|
| Fibre-optic ports | 100BaseFX ports (SC connector), Multimode | Number of ports | 4x SC Multi-mode |
|-------------------|---|-----------------|------------------|

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 315658 h |

Power supply

Supply voltage via Ethernet switch

Technical data

| | | | |
|-----------------------|---------------|------------------|--------------------------------|
| Housing main material | Metal | Type of mounting | Insert in module slot M1,M2,M3 |
| Speed | Fast Ethernet | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000309 | ETIM 9.0 | EC000309 |
| ETIM 10.0 | EC000309 | ECLASS 14.0 | 19-17-03-03 |
| ECLASS 15.0 | 19-17-03-03 | | |