

Product type designation

SCALANCE X101-1LD

SCALANCE X101-1LD IE MEDIA CONVERTER UNMANAGED 1 X 10/100MBIT/S RJ45 PORT, 1 X 100MBIT/S SINGLEMODE BFOC, LED DIAGNOSIS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY, PROFINET COMPLIANT SLEEVE, MANUAL AVAILABLE AS DOWNLOAD



Transmission rate

| | |
|---------------|------------|
| Transfer rate | 100 Mbit/s |
|---------------|------------|

Interfaces

| | |
|---|-----------------------|
| Number of electrical/optical connections / for network components or terminal equipment / maximum | 2 |
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for network components or terminal equipment | 1 |
| <ul style="list-style-type: none"> • for signaling contact | 1 |
| <ul style="list-style-type: none"> • for power supply | 1 |
| <ul style="list-style-type: none"> • for redundant voltage supply | 1 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for network components or terminal equipment | RJ45 port |
| <ul style="list-style-type: none"> • for signaling contact | 2-pole terminal block |
| <ul style="list-style-type: none"> • for power supply | 4-pole terminal block |
| Number of optical interfaces | |
| <ul style="list-style-type: none"> • for fiber optic cable / at 100 Mbit/s | 1 |
| Design of the optical interface | |
| <ul style="list-style-type: none"> • for fiber optic cable / at 100 Mbit/s | ST/BFOC-Port |

| | |
|---|-----------------------|
| Connectable optical power relative to 1 mW | |
| <ul style="list-style-type: none"> • of the transmitter output / minimum • of the transmitter output / maximum • of the receiver input / maximum | -5 dB 0 dB 0 dB |
| Optical sensitivity relating to 1 mW / of the receiver input / minimum | -35 dB |
| Damping ratio / of the FOC transmission link / minimum necessary | 0 dB |
| Range / at the optical interface / depending on the optical fiber used | 0 ... 26 km |

Signal-Inputs/outputs

| | |
|---|-------|
| Operating voltage / of the signaling contacts | |
| <ul style="list-style-type: none"> • at DC / Rated value | 24 V |
| Operating current / of the signaling contacts | |
| <ul style="list-style-type: none"> • at DC / maximum | 0.1 A |

Supply voltage, current consumption, power loss

| | |
|--|---------------------|
| Supply voltage | |
| <ul style="list-style-type: none"> • external • external | 24 V 18 ... 32 V |
| Type of voltage / of the supply voltage | DC |
| Product component / fusing at power supply input | Yes |
| Fuse protection type / at input for supply voltage | 0.5 A / 60 V |
| Consumed current | |
| <ul style="list-style-type: none"> • maximum | 0.12 A |
| Power loss [W] | |
| <ul style="list-style-type: none"> • at DC / at 24 V | 3 W |

Permitted ambient conditions

| | |
|--|--|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -10 ... +60 °C -40 ... +80 °C -40 ... +80 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum | 95 % |
| Protection class IP | IP30 |

Design, dimensions and weight

| | |
|---|---------|
| Design | Compact |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 124 mm |
| Net weight | 0.55 kg |
| Mounting type | |
| <ul style="list-style-type: none"> • 35 mm DIN rail mounting | Yes |

- S7-300 rail mounting Yes
- wall mounting Yes

Product functions / Redundancy

| | |
|---|----|
| Product function | |
| • Parallel Redundancy Protocol (PRP)/operation in the PRP-network | No |
| • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |

Standards, specifications, approvals

| | |
|---|--|
| Standard | |
| • for FM | FM3611: Class 1, Divison 2, Group A, B, C, D / T.., Class 1, Zone 2, Group IIC, T.. |
| • for hazardous zone | EN 600079-15 II 3 G EEx nA II T.. KEMA 06 ATEX 0021 X |
| • for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| • for hazardous zone / from CSA and UL | UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T.., Class 1 / Zone 2 / Group IIC / T.. |
| • for emitted interference | EN 61000-6-4:2001 |
| • for interference immunity | EN 61000-6-4:2001 |
| Certificate of suitability | EN 61000-6-2:2001, EN 61000-6-4:2001 |
| • CE marking | Yes |
| • C-Tick | Yes |
| • KC approval | Yes |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Bureau Veritas (BV) | Yes |
| • Det Norske Veritas (DNV) | Yes |
| • Germanische Lloyd (GL) | Yes |
| • Lloyds Register of Shipping (LRS) | Yes |
| • Nippon Kaiji Kyokai (NK) | Yes |
| • Polski Rejestr Statkow (PRS) | No |
| MTBF / at 40 °C | 134 y |

Further Information / Internet Links

| | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |

Security information

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