

### Product type designation

### SCALANCE X101-1POF

SCALANCE X101-1POF IE MEDIA CONVERTER UNMANAGED 1 X 10/100MBIT/S RJ45 PORT, 1 X 100MBIT/S POF SCRJ, 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"> <li>• for network components or terminal equipment</li> </ul>  | 1                     |
| <ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>                         | 1                     |
| <ul style="list-style-type: none"> <li>• for power supply</li> </ul>                              | 1                     |
| <ul style="list-style-type: none"> <li>• for redundant voltage supply</li> </ul>                  | 1                     |
| Type of electrical connection   |                       |
| <ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> </ul>  | RJ45 port             |
| <ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>                         | 2-pole terminal block |
| <ul style="list-style-type: none"> <li>• for power supply</li> </ul>                              | 4-pole terminal block |
| Number of optical interfaces  |                       |
| <ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>         | 1                     |
| Design of the optical interface   |                       |
| <ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>         | SC-RJ/POF Port        |

|   |                          |
|---|--------------------------|
| Connectable optical power relative to 1 mW  |                          |
| <ul style="list-style-type: none"> <li>• of the transmitter output / minimum</li> <li>• of the transmitter output / maximum</li> <li>• of the receiver input / maximum</li> </ul> | -6 dB<br>-0.5 dB<br>1 dB |
| Optical sensitivity relating to 1 mW / of the receiver input / minimum  | -23 dB                   |
| Damping ratio / of the FOC transmission link / minimum necessary  | 0 dB                     |
| Range / at the optical interface / depending on the optical fiber used  | 0 ... 0.05 km            |

### Signal-Inputs/outputs

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

### Supply voltage, current consumption, power loss

|  |                     |
|--|---------------------|
| Supply voltage   |                     |
| <ul style="list-style-type: none"> <li>• external</li> <li>• external</li> </ul> | 24 V<br>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"> <li>• maximum</li> </ul>                      | 0.12 A              |
| Power loss [W]   |                     |
| <ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>              | 3 W                 |

### Permitted ambient conditions

|  |  |
|--|--|
| Ambient temperature  |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | -10 ... +60 °C<br>-40 ... +80 °C<br>-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"> <li>• 35 mm DIN rail mounting</li> </ul> | 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 61000-6-3 (Class B)   |
| • 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 | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |

## Security information

### Security information

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