

Product type designation

SCALANCE X101-1

SCALANCE X101-1, IE MEDIA CONVERTER UNMANAGED 1 X 10/100MBIT/S RJ45 PORT, 1 X 100MBIT/S MULTIMODE 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 	BFOC-Port (Multimode up to 5 km)

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 	-19 dB -14 dB -14 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-31 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 5 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
- wall mounting

Yes
Yes

Product functions / Redundancy

Product function

- Parallel Redundancy Protocol (PRP)/operation in the PRP-network
- Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)

No
No

Standards, specifications, approvals

Standard

- for FM
- for hazardous zone
- for safety / from CSA and UL
- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

FM3611: Class 1, Divison 2, Group A, B, C, D / T.., Class 1, Zone 2, Group IIC, T..
EN 600079-15 II 3 G EEx nA II T.. KEMA 06 ATEX 0021 X
UL 60950-1, CSA C22.2 No. 60950-1
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..
EN 61000-6-3
EN 61000-6-4:2001

Certificate of suitability

- CE marking
- C-Tick
- KC approval

EN 61000-6-2:2001, EN 61000-6-4:2001
Yes
Yes
Yes

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

Yes
Yes
Yes
Yes
Yes
Yes
No

MTBF / at 40 °C

134 y

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager

<http://www.siemens.com/snst>
<http://www.siemens.com/simatic-net>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>

Security information

Security information

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