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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	
• for network components or terminal equipment	1
• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	
• for network components or terminal equipment	RJ45 port
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
Number of optical interfaces	
• for fiber optic cable / at 100 Mbit/s	1
Design of the optical interface	
• for fiber optic cable / at 100 Mbit/s	BFOC-Port (Multimode up to 5 km)

Connectable optical power relative to 1 mW	
• of the transmitter output / minimum	-19 dB
• of the transmitter output / maximum	-14 dB
• of the receiver input / maximum	-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	
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A

Supply voltage, current consumption, power loss

Supply voltage	
• external	24 V
• external	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	
• maximum	0.12 A
Power loss [W]	
• at DC / at 24 V	3 W

Permitted ambient conditions

Ambient temperature	
• during operation	-10 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-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	
• 35 mm DIN rail mounting	Yes

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• 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
• 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
• Marine classification association / Bureau Veritas (BV)	Yes
• Marine classification association / Det Norske Veritas (DNV)	Yes
• Marine classification association / Germanische Lloyd (GL)	Yes
• Marine classification association / Lloyds Register of Shipping (LRS)	Yes
• Marine classification association / Nippon Kaiji Kyokai (NK)	Yes
• Marine classification association / 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
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

Security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this inmind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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