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Data sheet 6GK5101-1BC00-2AA3

product type designation



SCALANCE X101-1LD

SCALANCE X101-1LD IE Media converter unmanaged 1x 10/100 Mbit/s RJ45 port, 1x 100 Mbit/s single-mode BFOC, LED diagnostics, error signaling contact with set button, Redundant power supply, PROFINET-compliant securing collars, Manual available as a download available

transfer 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	ST/BFOC-Port
connectable optical power relative to 1 mW	
● of the transmitter output / minimum	-5 dB
● of the transmitter output / maximum	0 dB
● of the receiver input / maximum	0 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-35 dB
attenuation factor / 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	
● at DC / rated value	24 V
operational 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

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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
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 weights	
design	Compact
width	40 mm
height	125 mm
depth	124 mm
net weight	0.55 kg
fastening method	
● 35 mm top hat 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
● French marine classification society (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	134 y
further information / internet-Links	
Internet-Link	
● to web page: selection aid TIA 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

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● 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	
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last modified: 12/16/2020

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