

### Product type designation

### SCALANCE X104-2

SCALANCE X104-2, UNMANAGED IE SWITCH, 4 X 10/100MBIT/S RJ45 PORTS, 2 X 100 MBIT/S MULTIMODE BFOC, LED DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT VOLTAGE SUPPLY MANUAL AVAILABLE AS DOWNLOAD



### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
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### Interfaces / for communication / integrated

Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	4; RJ45 with securing collar
Number of 100 Mbit/s ST(BFOC) ports	
<ul style="list-style-type: none"> <li>for multimode</li> </ul>	2
Number of 100 Mbit/s SC ports	
<ul style="list-style-type: none"> <li>for multimode</li> </ul>	0
Number of 1000 Mbit/s LC ports	
<ul style="list-style-type: none"> <li>for multimode</li> <li>for single mode (LD)</li> </ul>	0 0

### Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> <li>for signaling contact</li> <li>for power supply</li> <li>for redundant voltage supply</li> </ul>	1 1 1

Type of electrical connection	
<ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	2-pole terminal block 4-pole terminal block

### 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

Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> <li>• external</li> <li>• external</li> </ul>	24 V 18 ... 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	0.6 A / 60 V
Consumed current / maximum	0.16 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	3.8 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 -40 ... +80 °C -40 ... +80 °C
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP30

### Design, dimensions and weight

Design	compact
Width	60 mm
Height	125 mm
Depth	124 mm
Net weight	0.78 kg
Mounting type	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	Yes Yes Yes No

### Product functions / management, configuration

Product function	
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• multiport mirroring	No
• CoS	Yes
• switch-managed	No

### Product functions / Redundancy

Product function	
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• 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 / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0:2009, EN60079-15:2010, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 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 (Class A)
• for interference immunity	EN 61000-6-2
Certificate of suitability / CE marking	Yes
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
• 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)	No
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
MTBF / at 40 °C	134.87 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
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

## Security information

### Security information

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