

Product type designation

SFP991-1LD

SCALANCE X accessory; SFP991-1LD; 1x 100 Mbit/s LC port, optical; single-mode optical up to max. 26 km



Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	1
Number of optical interfaces / for network components or terminal equipment / maximum	1
Number of 100 Mbit/s LC ports	1
Design of the optical interface / for network components or terminal equipment	LC
Wavelength / of the optical interface	1310 nm; Single-mode
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 	<p>-15 dB</p> <p>-8 dB</p> <p>-8 dB</p>
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-28 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 26 km

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none">during operationduring storageduring transportNote	<p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>A maximum operating temperature of +85 °C is permissible for a duration of 16 hours</p>
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
Design	SFP Module
Width	14 mm
Height	9 mm
Depth	57 mm
Net weight	0.01 kg
Mounting type	latched

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none">for FMfor hazardous zonefor safety / from CSA and ULfor emitted interferencefor interference immunity	<p>FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4</p> <p>EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X</p> <p>UL 60950-1, CSA C22.2 No. 60950-1-03</p> <p>EN 61000-6-4:2007 (Class A)</p> <p>EN 61000-6-2:2005</p>
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none">CE markingC-TickKC approval	<p>Yes</p> <p>Yes</p> <p>No</p>
Marine classification association	
<ul style="list-style-type: none">Bureau Veritas (BV)	Yes
MTBF	490 y

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none">to website: Selector SIMATIC NET SELECTION TOOLto website: Industrial communicationto website: Industry Mallto website: Information and Download Centerto website: Image databaseto website: CAx Download Managerto website: Industry Online Support	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

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