

**Product-type designation**

**SFP991-1LH+**



SCALANCE X ACCESSORY,  
SFP991-1LH+ 1 X 100MBIT/S LC-PORT OPTICAL  
SINGLEMODE GLASS UP TO MAX. 70 KM

**Transmission rate**

Transfer rate / 1 100 Mbit/s

**Interfaces**

Number of electrical/optical connections / for network components or terminal equipment / maximum 1

Number of optical interfaces / for optical waveguide

- at 100 Mbit/s

1

Design of optical interface / for optical waveguide

- at 100 Mbit/s

LC port (singlemode up to 70 km)

Connectable optical power relative to 1 mW

- of the transmitter output
- of the receiver input / maximum

-5 ... +0 dB

-3 dB

Optical sensitivity relative to 1 mW / of the receiver input / minimum

-34 dB

Attenuation / of fiber-optic cable transmission link / minimum necessary

3 dB

Range / at the optical interface / depending on the optical fiber used

12 ... 70 km

**Permitted ambient conditions**

Ambient temperature

- during operating
- during storage

-40 ... +85 °C

-40 ... +85 °C

<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
<b>Design, dimensions and weight</b>	
Design	SFP module
Width	13.7 mm
Height	11.9 mm
Depth	56.5 mm
Net weight	0.01 kg
Type of mounting	
<ul style="list-style-type: none"> <li>Installation in media module slot</li> </ul>	No
<b>Standards, specifications, approvals</b>	
Standard	
<ul style="list-style-type: none"> <li>for EMC / from FM</li> </ul>	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> <li>for hazardous zone</li> </ul>	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<ul style="list-style-type: none"> <li>for safety / of CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1-03
<ul style="list-style-type: none"> <li>for emitted interference</li> </ul>	EN 61000-6-4:2007 (Class A)
<ul style="list-style-type: none"> <li>for interference immunity</li> </ul>	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> <li>CE mark</li> </ul>	Yes
<ul style="list-style-type: none"> <li>C-Tick</li> </ul>	Yes
<ul style="list-style-type: none"> <li>KC approval</li> </ul>	No
<b>letzte Änderung:</b>	May 28, 2012