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Data sheet 6GK5993-1AV00-8AA0

product type designation **SFP993-1LH**

SCALANCE X accessory; Plug-in transceiver SFP993-1LH; 1x 10000 Mbit/s LC port, optical; single-mode optical up to max. 40 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 10 Gbit/s LC ports (LX)	1
design of the optical interface / for network components or terminal equipment	LC
wavelength / of the optical interface	1550 nm; Single-mode
connectable optical power relative to 1 mW	
● of the transmitter output / minimum	-4.7 dB
● of the transmitter output / maximum	4 dB
● of the receiver input / maximum	0.5 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-14.1 dB
attenuation factor / of the FOC transmission link / minimum necessary	4.5 dB
range / at the optical interface / depending on the optical fiber used	0 ... 40 km
transmission method / for connection type 1	10GBASE-ER
ambient conditions	
ambient temperature	
● during operation	0 ... 60 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	SFP Module
width	14 mm
height	9 mm
depth	57 mm
net weight	0.01 kg
fastening method	latched
standards, specifications, approvals	
standard	
● for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-10
● for emitted interference	EN 61000-6-4 (Class A)
● for interference immunity	EN 61000-6-2
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007

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● CE marking	Yes
● C-Tick	Yes
● KC approval	No
● CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
● CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
● E1 approval	No
Marine classification association	
● French marine classification society (BV)	Yes
MTBF	300 a
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● 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

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