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Data sheet 6GK5991-1AD00-8GA0

product type designation	**SFP991-1A**
	SCALANCE X accessory; Active plug-in transceiver SFP991-1A; 1x 100 Mbit/s LC port, optical; multimode optical up to max. 5 km.



Technical Product Detail Page	https://i.siemens.com/1P6GK5991-1AD00-8GA0
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; Multi-mode
connectable optical power relative to 1 mW	
● of the transmitter output / minimum	-23.5 dB
● of the transmitter output / maximum	-14 dB
● of the receiver input / maximum	-8 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-31 dB
attenuation factor / of the FOC transmission link / minimum necessary	0 dB
range / at the optical interface / depending on the optical fiber used	0 ... 5 km
transmission method / for connection type 1	100BASE-FX
ambient conditions	
ambient temperature	
● during operation	-40 ... +95 °C
● during storage	-40 ... +95 °C
● during transport	-40 ... +95 °C
● note	A maximum operating temperature of +95 °C is permissible for a duration of 16 hours.
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	

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● for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
● for safety / from CSA and UL	UL 62368-1 and CAN/CSA C22.2 No. 62368-1:19
● for emitted interference	EN 61000-6-4:2007 (Class A)
● for interference immunity	EN 61000-6-2:2005
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
● CE marking	Yes
● C-Tick	Yes
● KC approval	No
MTBF	345 a

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	32.31 kg
● during manufacturing	2.2 kg
● during operation	30.1 kg
● after end of life	0.01 kg

further information / internet links

internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information

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Approvals / Certificates

General Product Approval				For use in hazardous locations	
CE EG-Konf.	UKCA	EAC	China RoHS	IECEx IECEx	Ex ATEX

For use in hazardous locations		Environment
FM	CCC-Ex	EPD

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