

product type designation	MM491-2LD
	-- spare part - - SCALANCE X-400 accessories, media module MM491-2LD, 2x 100 Mbps single-mode BFOC, hot swappable, labeling field.
product brand name	SCALANCE
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	2
number of optical interfaces / for network components or terminal equipment / maximum	2
number of 100 Mbit/s ST(BFOC) ports / for multimode / integrated	2
design of the optical interface / for network components or terminal equipment	ST/BFOC
connectable optical power relative to 1 mW	
• of the transmitter output / minimum	-15 dB
• of the transmitter output / maximum	-8 dB
• of the receiver input / maximum	-3 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-34 dB
attenuation factor / 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	
• during operation	-40 ... +70 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	Media module
width	35 mm
height	145 mm
depth	90 mm
net weight	0.26 kg
fastening method	latched
• installation in media module slot	Yes
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• 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 60950-1, CSA C22.2 No. 60950-1-03
• for hazardous zone / from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
• for emitted interference	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-2:2001
certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
• CE marking	Yes
• C-Tick	Yes
• KC approval	Yes

Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
MTBF	141 a

further information / internet links

internet link	
• to web page: selection aid TIA Selection Tool	https://www.modulplc.com/?s=6GK5491-2AC00-8AA2
• to website: Industrial communication	https://www.modulplc.com/?s=6GK5491-2AC00-8AA2
• to website: Image database	https://www.modulplc.com/?s=6GK5491-2AC00-8AA2
• to website: CAX-Download-Manager	https://www.modulplc.com/?s=6GK5491-2AC00-8AA2
• to website: Industry Online Support	https://www.modulplc.com/?s=6GK5491-2AC00-8AA2

Approvals / Certificates

General Product Approval



[China RoHS](#)

[Manufacturer Declaration](#)



General Product Approval

EMV

For use in hazardous locations

[Miscellaneous](#)



[China RoHS](#)



For use in hazardous locations

Test Certificates

Maritime application

[FM](#)

[Type Test Certificates/Test Report](#)



Maritime application



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