

### Product type designation

Product description

### MM991-2 (BFOC)

XR-300 media module

SCALANCE X ACCESSORY, MEDIA MODULE MM991-2, 2 X

100MBIT/S BFOC-PORTS OPTICAL; MULTIMODE GLASS UP TO

MAX. 5 KM



### 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 <ul style="list-style-type: none"> <li>• of the transmitter output / minimum</li> <li>• of the transmitter output / maximum</li> <li>• of the receiver input / maximum</li> </ul>	-19 dB -14 dB -3 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-32 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB

Range / at the optical interface / depending on the optical fiber used	0 ... 5 km
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### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-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 operation / maximum	95 %
Protection class IP	IP20

### Design, dimensions and weight

Design	Media module
Width	60 mm
Height	22 mm
Depth	100 mm
Net weight	0.08 kg
Mounting type	latched
<ul style="list-style-type: none"> <li>Installation in media module slot</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>for FM</li> </ul>	FM3611: Class 1, Divison 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, EN60079-15: 2005, II 3(2) G Ex nA [op is] IIC T4 DEKRA 11 ATEX 0060 X
<ul style="list-style-type: none"> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> <li>for hazardous zone / from CSA and UL</li> </ul>	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, 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 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
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> <li>CE marking</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>	Yes
MTBF / at 40 °C	140 y

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>

- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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