

Product type designation

**PROFIBUS OLM/G12-1300 V4.0**

PB OLM/G12-1300 V4.0 OPTICAL LINK MODULE W. 1 RS485 AND 2 GLASS-FOC-INTERFACES (4 BFOC-SOCKETS), 1300NM WAVELENGTH FOR GREAT DISTANCES WITH SIGNAL. CONTACT AND MEASURING OUTPUT



Transmission rate	
Transfer rate / with PROFIBUS	9.6 kbit/s ... 12 Mbit/s
Transfer rate / with PROFIBUS PA	45.45 kbit/s
Interfaces	
Number of electrical/optical connections / for network components or terminal equipment / maximum	3
Number of electrical connections	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> <li>• for measuring device</li> <li>• for signaling contact</li> <li>• for power supply</li> <li>• for redundant voltage supply</li> </ul>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> <li>• for measuring device</li> <li>• for power supply and signaling contact</li> </ul>	<p>9-pin Sub-D socket</p> <p>2-pole terminal block</p> <p>5-pole terminal block</p>
Number of optical interfaces / for fiber optic cable	2
Design of the optical interface / for fiber optic cable	BFOC port

Optical data	
Damping ratio / of the FOC transmission link <ul style="list-style-type: none"> <li>• for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km / maximum</li> </ul>	8 dB
propagation delay [bit]	6.5 bit
Connectable optical power relative to 1 mW <ul style="list-style-type: none"> <li>• for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km</li> </ul>	-19 dB
Optical sensitivity relating to 1 mW <ul style="list-style-type: none"> <li>• for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km</li> </ul>	-29 dB
Wavelength <ul style="list-style-type: none"> <li>• for glass FOC with 10/125 µm or 9/125 µm / compatible with interface / at 0.5 dB/km</li> </ul>	1310 nm
Wire length <ul style="list-style-type: none"> <li>• for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km / maximum</li> </ul>	15 km
Signal-Inputs/outputs	
Operating voltage / of the signaling contacts / at DC / Rated value	24 V
Operating current / of the signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / at DC / Rated value	24 V
Supply voltage / at DC	18.8 ... 28.8 V
Product component / fusing at power supply input	Yes
Consumed current / at DC / at 24 V / maximum	0.2 A
Permitted ambient conditions	
Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP40
Design, dimensions and weight	
Design	compact
Width	39.5 mm
Height	112 mm
Depth	74.5 mm
Net weight	340 g

Mounting type	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> </ul>	<p>Yes</p> <p>Yes</p>

### Product functions / Redundancy

Product function / Ring redundancy	Yes
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### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for FM</li> <li>• for hazardous zone</li> <li>• for safety / from CSA and UL</li> <li>• for hazardous zone / from CSA and UL</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	<p>FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4</p> <p>EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X</p> <p>UL 60950-1, CSA C22.2 Nr. 60950-1</p> <p>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</p> <p>EN 61000-6-4 (Class A)</p> <p>EN 61000-6-2</p>
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• C-Tick</li> </ul>	<p>Yes</p> <p>Yes</p>
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

### Security information

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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