

### product type designation



### PROFIBUS OLM/G12 V4.0

PROFIBUS OLM/G12 V4.0 Optical Link Module with 1 RS 485 and 2 glass FOC interfaces (4 BFOC sockets) for standard Distances up to 2850 m, with signaling contact and measuring output.

transfer 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	
• for network components or terminal equipment	1
• for measuring device	1
• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
type of electrical connection	
• for network components or terminal equipment	9-pin Sub-D socket
• for measuring device	2-pole terminal block
• for power supply and signaling contact	5-pole terminal block
number of optical interfaces / for fiber optic cable	2
design of the optical interface / for fiber optic cable	BFOC port
optical data	
attenuation factor / of the FOC transmission link	
• for glass FOC with 50/125 µm / at 3 dB/km / maximum	10 dB
• for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum	12 dB
propagation delay [bit]	6.5 bit
connectable optical power relative to 1 mW	
• for glass FOC with 50/125 µm / at 3 dB/km	-16 dB
• for glass FOC with 62.5/125 µm / at 3.5 dB/km	-13 dB
optical sensitivity relating to 1 mW	
• for glass FOC with 50/125 µm / at 3 dB/km	-28 dB
• for glass FOC with 62.5/125 µm / at 3.5 dB/km	-28 dB
wavelength / of the optical interface / note	860 nm, multimode
wire length	
• for glass FOC with 50/125 µm / at 3 dB/km / maximum	3 km
• for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum	3 km
signal inputs/outputs	
operating voltage / of the signaling contacts / at DC / rated value	24 V
operational 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
<b>ambient conditions</b>	
ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP40
<b>design, dimensions and weights</b>	
design	compact
width	39.5 mm
height	112 mm
depth	74.5 mm
net weight	340 g
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
<b>product functions / redundancy</b>	
product function / ring redundancy	Yes
<b>standards, specifications, approvals</b>	
standard	
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 Nr. 60950-1
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• CE marking	Yes
• C-Tick	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
reference code	
• according to IEC 81346-2:2019	KGC
product function / is supported / identification link	Yes; according to IEC 61406-1:2022
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	No
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	165.41 kg
• during manufacturing	15.09 kg
• during operation	150.26 kg
• after end of life	0.06 kg
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://siemens.com/industrial-communication">https://siemens.com/industrial-communication</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="https://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
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Approvals / Certificates


General Product Approval

 EG-Konf.		<a href="#">Declaration of Conformity</a>	 CCC	 UL	<a href="#">Miscellaneous</a>
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General Product Approval	EMV	For use in hazardous locations	Marine / Shipping
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 RCM	<a href="#">KC</a>	 KEMA	 ABS	 BUREAU VERITAS	 DNV
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Marine / Shipping	Environment
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 LRS	<a href="#">NK / Nippon Kaiji Kyokai</a>	 PRS	 RINA	<a href="#">Confirmation</a>
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