

Product type designation

PROFIBUS OLM/G12-1300 V4.0

PROFIBUS OLM/G12-1300 V4.0 optical link module with 1 RS485 and 2 glass FOC Interfaces (4 BFOC sockets), 1300 Nm shaft Length for large distances with signaling contact and test port



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"> • for network components or terminal equipment • for measuring device • for signaling contact • for power supply • for redundant voltage supply 	<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"> • for network components or terminal equipment • for measuring device • for power supply and signaling contact 	<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"> • for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km / maximum 	8 dB
propagation delay [bit]	6.5 bit
Connectable optical power relative to 1 mW <ul style="list-style-type: none"> • for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km 	-19 dB
Optical sensitivity relating to 1 mW <ul style="list-style-type: none"> • for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km 	-29 dB
Wavelength <ul style="list-style-type: none"> • for glass FOC with 10/125 µm or 9/125 µm / compatible with interface / at 0.5 dB/km 	1310 nm
Wire length <ul style="list-style-type: none"> • for glass FOC with 10/125 µm or 9/125 µm / at 0.5 dB/km / maximum 	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"> • during operation • during storage • during transport 	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"> • 35 mm DIN rail mounting • wall mounting 	<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"> • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity 	<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"> • CE marking • C-Tick 	<p>Yes</p> <p>Yes</p>
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) 	<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"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support 	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

Security information

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