

## Data sheet

6GK1503-3CB00

### 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 <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>	1 1 1 1 1
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>	9-pin Sub-D socket 2-pole terminal block 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 <ul style="list-style-type: none"> <li>• for glass FOC with 50/125 µm / at 3 dB/km / maximum</li> <li>• for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum</li> </ul>	10 dB 12 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 50/125 µm / at 3 dB/km</li> <li>• for glass FOC with 62.5/125 µm / at 3.5 dB/km</li> </ul>	-16 dB -13 dB
optical sensitivity relating to 1 mW <ul style="list-style-type: none"> <li>• for glass FOC with 50/125 µm / at 3 dB/km</li> <li>• for glass FOC with 62.5/125 µm / at 3.5 dB/km</li> </ul>	-28 dB -28 dB
wavelength / of the optical interface / note	860 nm, multimode
wire length <ul style="list-style-type: none"> <li>• for glass FOC with 50/125 µm / at 3 dB/km / maximum</li> <li>• for glass FOC with 62.5/125 µm / at 3.5 dB/km / maximum</li> </ul>	3 km 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
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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	
• CE marking	EN 61000-6-2, EN 61000-6-4
• C-Tick	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
<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 web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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)

## Approvals / Certificates

### General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



### General Product Approval

### EMV

### Marine / Shipping

#### Miscellaneous



#### KC



### Marine / Shipping

### Environment



[NK / Nippon Kaiji Kyōkai](#)



[Confirmation](#)

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