

## 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
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>

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### security information

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## Approvals / Certificates

### General Product Approval



[Declaration of Conformity](#)



General Product Approval	EMV	For use in hazardous locations	Marine / Shipping
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[Miscellaneous](#)



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ABS



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VERITAS

### Marine / Shipping

### Environment



[NK / Nippon Kaiji Kyōkai](#)



PRIS



RINA

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### Environment



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