SIEMENS

Data sheet 6GK1503-3CB00

Product type designation



PROFIBUS OLM G12

PROFIBUS OLM/G12 V4.0 OPTICAL LINK MODULE W. 1 RS485 AND 2 GLASS-FOC-INTERFACES (4 BFOC-SOCKETS) FOR STANDARD DISTANCES UP TO 2850 M, WITH 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		
 for network components or terminal equipment 	1	
• for measuring device	11	
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		
 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		
Damping ratio / 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	
• for glass FOC with 50/125 μm / compatible with interface / at 3 dB/km	860 nm
 for glass FOC with 62.5/125 µm / compatible with interface / at 3.5 dB/km 	860 nm
Cable 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 / for DC / Rated value	24 V
Operating current / of the signaling contacts / for DC /	0.1 A
maximum	U.T.A
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / for DC / Rated value	24 V
Supply voltage / for DC	18.8 28.8 V
Product component / fusing at power supply input	Yes
Consumed current / for DC / at 24 V / maximum	0.2 A
Permitted ambient conditions	
Ambient temperature	
 during operation 	0 60 °C
• during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
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	
• 35 mm DIN rail mounting	Yes
 wall mounting 	Yes

Product functions /	/ Redundancy
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Product function / Ring redundancy Yes

Standards, specifications, approvals		
Standard		
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4	
• for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, EN60079-28: 2007, II 3 (2) G Ex nA [opis] IIC T4 KEMA 09 ATEX 0173X	
for safety / from CSA and UL	UL 60950-1, CSA C22.2 Nr. 60950-1	
• for hazardous zone / from CSA and UL	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	
• 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.	Yes	

(ABS)

• Bureau Veritas (BV) • Det Norske Veritas (DNV)

• Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS)

• Nippon Kaiji Kyokai (NK)

Yes

Yes Yes

> Yes Yes

Further Information / Internet Links

Internet-Link

• 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

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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