SIEMENS

Product data sheet 6GK1503-3CB00

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
• 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 and terminal equipment	1
• for measuring instrument	1 1
• for alarm contact	1
• for power supply	1
• for redundant power supply	1
Design of electrical connection	
• for network components and 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 optical waveguide	2
Design of the optical interface / for optical waveguide	BFOC port
Optical data	
Damping ratio / of 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
Signal delay time in bit time	6.5 bit
Injectable optical power relating 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
Inputs/outputs	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage / of supply voltage	DC
Supply voltage / for DC	
• rated value	24 V
• minimum	18.8 V
• maximum	28.8 V
Product component / fusing at power supply input	Yes
Consumed current / At 24 V / with DC / maximum	0.2 A
Permitted ambient conditions	
Ambient temperature	
• during operating	0 … 60 °C
• during storage	-40 … +70 °C
• during transport	-40 … +70 °C
Relative humidity	
• at 25 °C / without condensation / during operating / 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
Type of mounting	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
Product properties, functions, components / general	
Product function / Ring redundancy	Yes
Standards, specifications, approvals	
Standard	
• for EMC / from FM	FM3611: Class 1, Divison 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 / of CSA and UL	UL 60950-1, CSA C22.2 Nr. 60950-1
• for hazardous area / of 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
Verification of suitability	EN 61000-6-2, EN 61000-6-4
• CE mark	Yes
• C-Tick	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
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