

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMATIC NET

6GK1503-3CB00

PROFIBUS OPTICAL LINK MODULE

Used with the applicable SIMATIC NET optical link modules configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation



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	
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• 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