SIEMENS

Data sheet 6GK1503-3CA00

Product type designation

PROFIBUS OLM P12

PROFIBUS OLM/P12 V4.0 Optical Link module with 1 RS485 and 2 plastic FOC interfaces (4 BFOC sockets), with signaling contact and test port



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	1
• 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

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Design of the optical interface / for fiber optic cable	BFOC port

Optical data	
Damping ratio / of the FOC transmission link	
• for POF FOC with 980/1000 µm / at 230 dB/km	13 dB
propagation delay [bit]	6.5 bit
Connectable optical power relative to 1 mW	
• of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km	-17 dB
• of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km	-5 dB
Wavelength	
• of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km	660 nm
• of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km	660 nm
Wire length	
• for PCF FOC with 200/230 µm / at 10 dB/km / maximum	400 m
• for POF FOC with 980/1000 µm / at 230 dB/km / maximum	80 m

Signal-Inputs/outputs	
Operating voltage / of the signaling contacts / at DC / Rated value	24 V
Operating 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
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

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 / during operation / maximum	95 %
Protection class IP	IP40

Design, dimensions and weight	
Design	compact
Width	39.5 mm

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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

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. (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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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