

Product-type designation

PROFIBUS OLM G12 EEC



PB OLM/G12-EEC V4.0 OPTICAL LINK MODULE W. 1 RS485 AND 2 GLASS-FOC-INTERFACES (4 BFOC-SOCKETS) FOR EXTENDED TEMPERATURE RANGE - 20..+60 DGR.

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 signaling 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	
<ul style="list-style-type: none"> • for glass FOC with 50/125 μm / at 3 dB/km / maximum 	10 dB
<ul style="list-style-type: none"> • for glass FOC with 62.5/125 μm <ul style="list-style-type: none"> • at 3.5 dB/km / maximum 	12 dB
Signal delay time in bit time	6.5 bit
Injectable optical power relating to 1 mW	
<ul style="list-style-type: none"> • for glass FOC with 50/125 μm / at 3 dB/km 	-16 dB
<ul style="list-style-type: none"> • for glass FOC with 62.5/125 μm <ul style="list-style-type: none"> • at 3.5 dB/km 	-13 dB
Optical sensitivity relating to 1 mW	
<ul style="list-style-type: none"> • for glass FOC with 50/125 μm / at 3 dB/km 	-28 dB
<ul style="list-style-type: none"> • for glass FOC with 62.5/125 μm <ul style="list-style-type: none"> • at 3.5 dB/km 	-28 dB
Wavelength	
<ul style="list-style-type: none"> • for glass FOC with 50/125 μm / compatible with interface / at 3 dB/km 	860 nm
<ul style="list-style-type: none"> • for glass FOC with 62.5/125 μm / compatible with interface <ul style="list-style-type: none"> • at 3.5 dB/km 	860 nm
Cable length	
<ul style="list-style-type: none"> • for glass FOC with 50/125 μm / at 3 dB/km / maximum 	3 km
<ul style="list-style-type: none"> • for glass FOC with 62.5/125 μm at 3.5 dB/km maximum • 	3 km
Signal-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 / supply voltage	DC
Supply voltage / for DC	
<ul style="list-style-type: none"> • rated value 	24 V
<ul style="list-style-type: none"> • minimum 	18.8 V
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • during operating 	-25 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> • 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
Mounting type	
• 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, 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 / 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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