

product type designation



PROFIBUS OLM/G12 V4.0

PROFIBUS OLM/G12 V4.0 Optical Link Module with 1 RS 485 and 2 glass FOC interfaces (4 BFOC sockets) for standard Distances up to 2850 m, with signaling contact and measuring output.

| transfer 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 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 | |
| attenuation factor / 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 / of the optical interface / note | 860 nm, multimode |
| wire 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 / at DC / rated value | 24 V |
| operational 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 |

| | |
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| 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 |
| 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 weights | |
| design | compact |
| width | 39.5 mm |
| height | 112 mm |
| depth | 74.5 mm |
| net weight | 340 g |
| fastening method | |
| • 35 mm top hat DIN rail mounting | Yes |
| • wall mounting | Yes |
| product functions / redundancy | |
| product function / ring redundancy | Yes |
| standards, specifications, approvals | |
| standard | |
| • for safety / from CSA and UL | UL 60950-1, CSA C22.2 Nr. 60950-1 |
| • 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 |
| • French marine classification society (BV) | Yes |
| • Det Norske Veritas (DNV) | Yes |
| • Germanische Lloyd (GL) | Yes |
| • Lloyds Register of Shipping (LRS) | Yes |
| • Nippon Kaiji Kyokai (NK) | Yes |
| reference code | |
| • according to IEC 81346-2:2019 | KGC |
| product function / is supported / identification link | Yes; according to IEC 61406-1:2022 |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | No |
| standards, specifications, approvals / Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| Global Warming Potential [CO2 eq] | |
| • total | 165.41 kg |
| • during manufacturing | 15.09 kg |
| • during operation | 150.26 kg |
| • after end of life | 0.06 kg |
| further information / internet links | |
| internet link | |
| • to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| • to website: Industrial communication | https://siemens.com/industrial-communication |
| • to web page: SiePortal | https://sieportal.siemens.com/ |
| • to website: Image database | https://www.automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | https://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

security information

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Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



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|--------------------------|-----|-------------------------------------|-------------------|
| General Product Approval | EMV | For use in hazard- ous locations | Marine / Shipping |
|--------------------------|-----|-------------------------------------|-------------------|

[Miscellaneous](#)



[KC](#)



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|-------------------|-------------|
| Marine / Shipping | Environment |
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[Confirmation](#)

Environment



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