

product type designation



PROFIBUS OLM/G12-EEC V4.0

PROFIBUS OLM/G12-EEC V4.0 optical link module with 1 RS 485 and 2 glass fiber optic cable interfaces (4 BFOC sockets) for extended temperature range -20...+60 °C.

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 |
| 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 |
| 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 | -25 ... +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 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 |
| • CCC / for hazardous zone according to GB standard | 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 |

further information / internet-Links

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|---|---|
| Internet-Link | |
| • 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 |

security information

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|----------------------|---|
| security information | Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For |
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the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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