

Product type designation

**PROFIBUS OLM/G12-EEC V4.0**  
PROFIBUS OLM/G12-EEC V4.0 optical link module with 1 RS485 and 2 glass FOC 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                                                                |                 |
|-----------------------------------------------------------------------------|-----------------|
| Damping ratio / 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                                                                  |                 |
| • 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          |
| 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            |
| 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           |
| 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                    | 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 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 | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |

- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

## Security information

### 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 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)

**last modified:**

11/16/2019