SIEMENS

Data sheet 6GK1500-3AA10

Product type designation

PROFIBUS OBT

PROFIBUS OBT OPT. BUS TERMINAL FOR CONNECT. A
PROFIBUS CLIENT WITHOUT INTEGRATED OPT. INTERFACE
TO OPTICAL PROFIBUS DP, WITHOUT SIMPLEX CONNECTOR



| 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 | 3 |
| components or terminal equipment / maximum | |
| Number of electrical connections | |
| for network components or terminal equipment | 1 |
| • for power supply | 1 |
| Type of electrical connection | |
| for network components or terminal equipment | 9-pin Sub-D socket |
| • for power supply | 3-pole terminal block |
| for power supply and signaling contact | - |
| Number of optical interfaces / for fiber optic cable | 2 |
| Design of the optical interface / for fiber optic cable | Duplex port |

Damping ratio / of the FOC transmission link

| • for PCF FOC with 200/230 μm / at 10 dB/km | 3 dB |
|---|--|
| • 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 | 0.0 bit |
| of the FOC transmission link / for PCF FOC | -16 dB |
| with 200/230 μm / at 10 dB/km | -10 0.5 |
| of the FOC transmission link / for POF FOC with 980/1000 μm / at 230 dB/km | -5.9 dB |
| Optical sensitivity relating to 1 mW | |
| • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km | -22 dB |
| of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km | -20 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 | 300 m |
| • for POF FOC with 980/1000 µm / at 230 dB/km / maximum | 50 m |
| | |
| Supply voltage, current consumption, power loss | |
| Supply voltage, current consumption, power loss Type of voltage / of the supply voltage | DC |
| | DC 24 V |
| Type of voltage / of the supply voltage | |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value | 24 V |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC | 24 V |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions | 24 V |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature | 24 V 19.2 28.8 V |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation | 24 V 19.2 28.8 V 0 60 °C |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation • during storage • during transport | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weight | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weight Design | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % IP30 compact |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature • during operation • during storage • during transport Relative humidity / at 25 °C / without condensation / during operation / maximum Protection class IP Design, dimensions and weight Design Width | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % IP30 compact 50.5 mm |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % IP30 compact 50.5 mm 138 mm |
| Type of voltage / of the supply voltage Supply voltage / at DC / Rated value Supply voltage / at DC Permitted ambient conditions Ambient temperature | 24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % IP30 compact 50.5 mm 138 mm 78 mm |
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| wall mounting | Yes |
|--|--|
| Product functions / Redundancy | |
| Product function / Ring redundancy | No |
| 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, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X |
| for safety / from CSA and UL | UL 60950-1, CSA C22.2 Nr. 60950-1 |
| for hazardous zone / from CSA and UL | - |
| • 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) | No |
| Bureau Veritas (BV) | No |
| Det Norske Veritas (DNV) | No |
| Germanische Lloyd (GL) | No |
| Lloyds Register of Shipping (LRS) | No |
| ● Nippon Kaiji Kyokai (NK) | No |
| 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 |

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. Thirdparty 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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