SIEMENS

Data sheet 6GK1500-3AA00

Product type designation

PROFIBUS OBT

PROFIBUS OBT OPT. BUS TERMINAL FOR CONNECT. OF A PROFIBUS STATION W/O INTEGR. OPT. INTERFACE TO THE OPT. PROFIBUS DP, W/O SIMPLEX CONNECTORS



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
Optical data	
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	
 of the FOC transmission link / for PCF FOC with 200/230 μm / at 10 dB/km 	-16 dB
 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	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 Relative humidity / at 25 °C / without condensation /	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 • 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 Height	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 Height Depth	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
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 Height	24 V 19.2 28.8 V 0 60 °C -40 +70 °C -40 +70 °C 95 % IP30 compact 50.5 mm 138 mm

• 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	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 / T11
• 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

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