MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6GK1500-3AA10

PROFIBUS OPTICAL BUS TERMINAL

Used with the applicable SIMATIC NET PROFIBUS OBT configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6GK1500-3AA10 official technical data; applicable specification pages.

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Data sheet 6GK1500-3AA10

product type designation

PROFIBUS OBT

PROFIBUS OBT; opt. bus terminal for connection of a PROFIBUS nodes without integr. opt. interface to the opt. PROFIBUS DP; without Simplex plug.



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 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	
attenuation factor / 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 optical interface / note	660 nm, POF/PCF
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	
type of voltage / of the supply voltage	DC
supply voltage / at DC / rated value	24 V
supply voltage / at DC	19.2 ... 28.8 V
ambient conditions	
ambient temperature	

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● 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	IP30
design, dimensions and weights	
design	compact
width	50.5 mm
height	138 mm
depth	78 mm
net weight	400 g
fastening method	
● 35 mm top hat DIN rail mounting	Yes
● wall mounting	Yes
product functions / redundancy	
product function / ring redundancy	No
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
● CCC / for hazardous zone according to GB standard	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (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 web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● 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. 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)

Approvals / Certificates

General Product Approval	EMC	For use in hazardous locations

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Manufacturer Declaration	RCM	Explosion Protection Certificate	ATEX-Zone 2-Declaration	IECEx	FM

For use in hazardous locations	Declaration of Conformity			Marine / Shipping	
CCC-Ex	CE EG-Konf.	Manufacturer Declaration	UKCA	ABS	BUREAU VERITAS

Marine / Shipping					Environment
DNV	Lloyd's Register LRS	NK / Nippon Kaiji Kyokai	RINA	DNV-GL	

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