SIEMENS

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 / with PROFIBUS transfer rate / with PROFIBUS A transfer rate / with PROFIBUS A 45.45 kbit/s number of electrical/optical connections / for network components or terminal equipment of or retwork components or terminal equipment of prover supply type of electrical connection • for network components or terminal equipment of prover supply and signaling contact or prover supply or or prover supply and signaling contact or prover supply or or prover supply and signaling contact or prover supply or or prover supply and signaling contact or prover supply or or prover supply or supply contact or prover supply or	transfer rate		
number of electrical/optical connections / for network components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment 1	transfer rate / with PROFIBUS	9.6 kbit/s 12 Mbit/s	
number of electrical/optical connections / for network components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment • for power supply 1 • for power supply 3-pin Sub-D socket • for network components or terminal equipment • for network components or terminal equipment • for power supply 3-pin Sub-D socket • for power supply and signaling contact • for power supply and signaling contact • number of optical interfaces / for fiber optic cable design of the optical interface / for fiber optic cable optical data attenuation factor / of the FOC transmission link • for POF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for POF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage / of the supply voltage supply voltage / at DC / rated value	transfer rate / with PROFIBUS PA	45.45 kbit/s	
components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment • for power supply type of electrical connection • for network components or terminal equipment • for power supply and signaling contact • for potical interfaces / for fiber optic cable design of the optical interface / for fiber optic cable • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km • for POF FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with 200/230 µm / at 230 dB/km / maximum • for POF FOC with	interfaces		
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type of electrical connection • for network components or terminal equipment • for power supply • for power supply and signaling contact number of optical interfaces / for fiber optic cable design of the optical interface / for fiber optic cable optical data attenuation factor / of the FOC transmission link • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km • for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value	 for network components or terminal equipment 	1	
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number of optical interfaces / for fiber optic cable design of the optical interface / for fiber optic cable optical data attenuation factor / of the FOC transmission link • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 280/1000 µm / at 230 dB/km in of the FOC transmission link / for POF FOC with 280/1000 µm / at 230 dB/km / 300 m maximum • for PCF FOC with 200/230 µm / at 10 dB/km / 300 m maximum • for POF FOC with 980/1000 µm / at 230 dB/km / 50 m maximum • for POF FOC with 980/1000 µm / at 230 dB/km / 50 m maximum • for POF FOC with 980/1000 µm / at 230 dB/km / 50 m supply voltage, current consumption, power loss type of voltage / at DC / rated value supply voltage / at DC / rated value	for power supply	3-pole terminal block	
design of the optical interface / for fiber optic cable Optical data attenuation factor / of the FOC transmission link • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / 50 m supply voltage, current consumption, power loss type of voltage / at DC / rated value supply voltage / at DC / rated value	 for power supply and signaling contact 	-	
attenuation factor / of the FOC transmission link • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC with 200/230 µm / at 10 dB/km / maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum • for POF FOC with 980/1000 µm	number of optical interfaces / for fiber optic cable	2	
attenuation factor / of the FOC transmission link • for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km 13 dB propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value	design of the optical interface / for fiber optic cable	Duplex port	
• for PCF FOC with 200/230 µm / at 10 dB/km • for POF FOC with 980/1000 µm / at 230 dB/km propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 200/230 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / 300 m maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / 50 m maximum • for PCF FOC with 980/1000 µm / at 230 dB/km / 50 m maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC ambient conditions	optical data		
• for POF FOC with 980/1000 μm / at 230 dB/km 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 • of the FOC transmission link / for POF FOC with 980/1000 μm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 μm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 μm / at 230 dB/km wire length • for PCF FOC with 200/230 μm / at 10 dB/km / maximum • for POF FOC with 980/1000 μm / at 230 dB/km / maximum • for POF FOC with 980/1000 μm / at 230 dB/km / summinum • for POF FOC with 980/1000	attenuation factor / of the FOC transmission link		
propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for PCF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC supply voltage / at DC ambient conditions	 for PCF FOC with 200/230 μm / at 10 dB/km 	3 dB	
connectable optical power relative to 1 mW of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for PCF FOC with 980/1000 µm / at 230 dB/km wire length of or PCF FOC with 200/230 µm / at 10 dB/km / maximum of or POF FOC with 980/1000 µm / at 230 dB/km / maximum of ro POF FOC with 980/1000 µm / at 230 dB/km / maximum of or POF FOC with 980/1000 µm / at 230 dB/km / maximum of or POF FOC with 980/1000 µm / at 230 dB/km / maximum of or POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC / rated value supply voltage / at DC method supply voltage / at DC	 for POF FOC with 980/1000 μm / at 230 dB/km 	13 dB	
 of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 10 dB/km / maximum of or PCF FOC with 200/230 µm / at 10 dB/km / maximum of or POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC / rated value ambient conditions 	propagation delay [bit]	6.5 bit	
200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km wire length • for PCF FOC with 200/230 µm / at 10 dB/km / maximum • for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at	connectable optical power relative to 1 mW		
980/1000 μm / at 230 dB/km optical sensitivity relating to 1 mW • of the FOC transmission link / for PCF FOC with 200/230 μm / at 10 dB/km • of the FOC transmission link / for POF FOC with 980/1000 μm / at 230 dB/km wire length • for PCF FOC with 200/230 μm / at 10 dB/km / maximum • for POF FOC with 980/1000 μm / at 230 dB/km / maximum • for POF FOC with 980/1000 μm / at 230 dB/km / maximum 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		-16 dB	
 of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km wire length for PCF FOC with 200/230 µm / at 10 dB/km / maximum for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC ambient conditions 		-5.9 dB	
200/230 μm / at 10 dB/km of the FOC transmission link / for POF FOC with 980/1000 μm / at 230 dB/km wire length of for PCF FOC with 200/230 μm / at 10 dB/km / maximum of for POF FOC with 980/1000 μm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value supply voltage / at DC / rated value 19.2 28.8 V supply voltage / at DC / rated value 24 w supply voltage / at DC / rated value 28.8 v supply voltage / at DC / rated value 29.0 c	optical sensitivity relating to 1 mW		
980/1000 µm / at 230 dB/km wire length ● for PCF FOC with 200/230 µm / at 10 dB/km / maximum ● for POF FOC with 980/1000 µm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC / rated value supply voltage / at DC mathematical descriptions in the supply voltage / at DC mathematical descriptions		-22 dB	
 for PCF FOC with 200/230 μm / at 10 dB/km / maximum for POF FOC with 980/1000 μm / at 230 dB/km / maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC / rated value supply voltage / at DC 		-20 dB	
maximum • for POF FOC with 980/1000 μm / at 230 dB/km / maximum 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	wire length		
maximum supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC ambient conditions DC 19.2 28.8 V	·	300 m	
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	· · · · · · · · · · · · · · · · · · ·	50 m	
supply voltage / at DC / rated value 24 V supply voltage / at DC 19.2 28.8 V ambient conditions	supply voltage, current consumption, power loss		
supply voltage / at DC 19.2 28.8 V ambient conditions	type of voltage / of the supply voltage	DC	
ambient conditions	supply voltage / at DC / rated value	24 V	
	supply voltage / at DC	19.2 28.8 V	
ambient temperature	ambient conditions		
	ambient temperature		

	0 00 00
during operation	0 60 °C
during storageduring transport	-40 +70 °C -40 +70 °C
relative humidity	-40 +70 · C
at 25 °C / without condensation / during operation /	95 %
maximum	95 /0
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
	140
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
• IOI Hazardous zone	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
 CCC / for hazardous zone according to GB standard 	Yes
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 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.
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