SIEMENS

Data sheet 6GK1503-2CA01

product type designation



PROFIBUS OLM/P11 V4.1

PROFIBUS OLM/P11 V4.1 Optical link module with 1 RS 485 and 1 plastic FOC interface (2 BFOC sockets), with signaling contact and test port

transfer rate / with PROFIBUS PA 10srfaces number of electrical/optical connections / for network components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment 1 • for measuring device 1 • for power supply 1 1type of electrical connection 1 • for network components or terminal equipment 2 • for power supply 1 1type of electrical connection 2 • for network components or terminal equipment 3 • for network components or terminal equipment 4 • for measuring device 2 • pole terminal block 5 • for power supply and signaling contact 6 • for power supply and signaling contact 6 • for power supply and signaling contact 7 • for power supply and signaling contact 6 • for power supply and signaling contact 7 • for power supply and signaling contact 8 • for power supply and signaling contact 9 • for power supply and signaling contact 9 • for power supply and signaling contact 9 • for the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km 6 • for PCF FOC with 200/230 µm / at 230 dB/km 7 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 7 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC with 980/1000 µm / at 230 dB/km / maximum 6 • for PCF FOC	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		
number of electrical/optical connections / for network components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment 1 • for measuring device 1 • for signaling contact 1 • for power supply 1 type of electrical connection		16.16 16.00
components or terminal equipment / maximum number of electrical connections • for network components or terminal equipment • for measuring device • for signaling contact • for power supply type of electrical connection • for network components or terminal equipment • for network components or terminal equipment • for network components or terminal equipment • for neasuring device • for power supply and signaling contact • for power supply and signaling contact design of the optical interface / for fiber optic cable propagation delay [bit] connectable optical power relative to 1 mW • of the FOC transmission link / for PCF FOC with 200/230		2
• for network components or terminal equipment • for measuring device • for signaling contact • for power supply 1 type of electrical connection • for network components or terminal equipment • for network components or terminal equipment • for measuring device • for power supply and signaling contact design of the optical interface / for fiber optic cable ### ### ### ### ### ### ### ### ### #		
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of for measuring device of or power supply and signaling contact design of the optical interface / for fiber optic cable BFOC port BFOC port BFOC port Dical data	type of electrical connection	
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design of the optical interface / for fiber optic cable ptical data propagation delay [bit] onnectable 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 ivre length of or PCF FOC with 200/230 µm / at 230 dB/km / 80 m maximum of or POF FOC with 980/1000 µm / at 230 dB/km / 80 m ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operating voltage / of the signaling contacts / at DC / maximum upply voltage / or the supply voltage type of voltage / of the supply voltage supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V product component / fusing at power supply input Yes	 for measuring device 	2-pole terminal block
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 wire length of or PCF FOC with 200/230 µm / at 10 dB/km / maximum of or PCF FOC with 980/1000 µm / at 230 dB/km / 80 m ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value 24 V operational current / of the signaling contacts / at DC / maximum 0.1 A upply voltage, current consumption, power loss type of voltage / of the supply voltage DC supply voltage / at DC / rated value	 for power supply and signaling contact 	5-pole terminal block
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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 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 / 80 m ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operational current / of the signaling contacts / at DC / maximum type of voltage, current consumption, power loss type of voltage / at DC / rated value supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 25 V product component / fusing at power supply input Yes	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 wire length of rPCF FOC with 200/230 μm / at 10 dB/km / maximum of rPCF FOC with 980/1000 μm / at 230 dB/km / 80 m ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operational current / of the signaling contacts / at DC / maximum 0.1 A upply 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 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V supply voltage / at DC / rated value 24 V product component / fusing at power supply input Yes		-17 dB
of the FOC transmission link / for PCF FOC with 200/230		-5 dB
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 / 80 m ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operational current / of the signaling contacts / at DC / maximum upply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / at DC / rated value 24 V product component / fusing at power supply input Yes	optical sensitivity relating to 1 mW	
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• for POF FOC with 980/1000 μm / at 230 dB/km / maximum ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operational current / of the signaling contacts / at DC / maximum 0.1 A upply 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 product component / fusing at power supply input 80 m 80 m 80 m 80 m	wire length	
ignal inputs/outputs operating voltage / of the signaling contacts / at DC / rated value operational current / of the signaling contacts / at DC / maximum 0.1 A upply 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 / rated value 24 V product component / fusing at power supply input Yes	• for PCF FOC with 200/230 μm / at 10 dB/km / maximum	400 m
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operational current / of the signaling contacts / at DC / maximum 0.1 A upply 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 32 V product component / fusing at power supply input Yes	ignal inputs/outputs	
upply 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 product component / fusing at power supply input Yes	operating voltage / of the signaling contacts / at DC / rated value	24 V
type of voltage / of the supply voltage supply voltage / at DC / rated value supply voltage / at DC supply voltage / at DC 18 32 V product component / fusing at power supply input Yes	operational current / of the signaling contacts / at DC / maximum	0.1 A
supply voltage / at DC / rated value 24 V supply voltage / at DC 18 32 V product component / fusing at power supply input Yes	supply voltage, current consumption, power loss	
supply voltage / at DC 18 32 V product component / fusing at power supply input Yes	type of voltage / of the supply voltage	DC
product component / fusing at power supply input Yes	supply voltage / at DC / rated value	24 V
	supply voltage / at DC	18 32 V
consumed current / at DC / at 24 V / maximum 0.2 A	product component / fusing at power supply input	Yes
	consumed current / at DC / at 24 V / maximum	0.2 A

ambient temperature	
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	IP40
design, dimensions and weights	
design	compact
width	39.5 mm
height	112 mm
depth	74.5 mm
net weight	0.34 kg
fastening method	
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
product functions / redundancy	165
	Voc
product function / ring redundancy	Yes
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) 	Yes
 French marine classification society (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: 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)

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