Data sheet

SIPLUS S7-1200 SB1232 1AO -40...+60°C start up -25°C with conformal coating based on 6ES7232-4HA30-0XB0 . ANALOG OUTPUT 1 AO, +/-10 V DC (12 bit resol.) or 0-20mA (11 bit resol.)



General information	
Product type designation	SB 1232, AQ 1x12 bit
Input current	
from backplane bus 5 V DC, typ.	15 mA
Output voltage	
Power supply to the transmitters	
 Supply current, max. 	25 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	1
Cycle time (all channels) max.	Voltage: 300 μ S (R), 750 μ S (1 uF) Current: 600 ms (1 mH); 2 ms (10 mH)
Output ranges, voltage	
• -10 V to +10 V	Yes

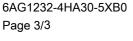
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Output ranges, current		
• 0 to 20 mA	Yes	
Load impedance (in rated range of output)		
with voltage outputs, min.	1 000 Ω	
with current outputs, max.	600 Ω	
Cable length		
• shielded, max.	10 m; shielded, twisted pair	
Analog value generation for the outputs		
Conversion principle	Differential	
Integration and conversion time/resolution per channel	42 hit	
 Resolution with overrange (bit including sign), max. 	12 bit	
max.		
Errors/accuracies		
Temperature error (relative to output range), (+/-)	25 °C ±0.5 %, up to 55 °C ±1.8 %	
nterrupts/diagnostics/status information		
Alarms	Yes	
Diagnostics function	Yes	
Diagnostics indication LED		
• for status of the outputs	Yes	
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C	
• max.	60 °C; = Tmax	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	5 000 m	
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) //	
altitude	Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500	
	m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5	
	000 m)	
Relative humidity		
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
Coolants and lubricants		
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air	

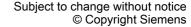


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Yes; Class 3B2 mold, fungus and dry rot spores (with the - to biologically active substances according to EN 60721-3-3 exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-- to chemically active substances according 52 (severity degree 3); * to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, * - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea Yes; Class 6B2 mold and fungal spores (excluding fauna); Class - to biologically active substances according 6B3 on request to EN 60721-3-6 - to chemically active substances according Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * - to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Yes; Class 3 (excluding trichlorethylene) - Against chemically active substances acc. to EN 60654-4 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas - Environmental conditions for process, measuring and control systems acc. to concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) ANSI/ISA-71.04 Remark * The supplied plug covers must remain in place over the unused - Note regarding classification of interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Yes; Class 2 for high reliability • Coatings for printed circuit board assemblies acc. to EN 61086 Yes; Type 1 protection • Protection against fouling acc. to EN 60664-3 Yes; Discoloration of coating possible during service life Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Yes; Conformal coating, Class A Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Mechanics/material Enclosure material (front) Yes Plastic **Dimensions** Width 38 mm Height 62 mm Depth 21 mm **Neights** Weight, approx. 40 g



last modified:



10/13/2020