



Figure similar

SIPLUS ET 200M SM336 F 6AI 15BIT -25 ... +60 DEG C 70 DEG C WITH FORCED CONVECTION WITH CONFORMAL COATING BASED ON 6ES7336-4GE00-0AB0 . FAILSAFE ANALOG INPUTS FOR SIMATIC SAFETY, WITH HART SUPPORT, UP TO CATEGORY 4 (EN954-1)/ SIL3 (IEC61508)/ PLE (ISO13849), 1 X 20 PIN

Supply voltage	
Rated value (DC)	24 V; +/- 5 %
Reverse polarity protection	Yes
Input current	
From power supply L+, typ.	150 mA
from backplane bus 5 V DC, max.	90 mA
Power loss	
Power loss, typ.	4.5 W
Analog inputs	
Number of analog inputs	6
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
• Voltage	No
• Current	Yes
Input ranges (rated values), currents	

• 0 to 20 mA • Input resistance (0 to 20 mA) • 4 mA to 20 mA • Input resistance (4 mA to 20 mA)	Yes 150 Ω; typ. 150 ohms max. 175 ohms Yes 150 Ω; typ. 150 ohms max. 175 ohms
Cable length	
• shielded, max.	1 000 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Integration time (ms) • Interference voltage suppression for interference frequency f1 in Hz	20 ms @ 50 Hz, 16.7 ms @ 60 Hz $f=n \times (f1\pm0.5\%)$
Encoder	
Connection of signal encoders	
• for current measurement as 2-wire transducer • for current measurement as 4-wire transducer	Yes Yes
Errors/accuracies	
Operational error limit in overall temperature range	
• Current, relative to input range, (+/-)	0.3 %; 60 µA
Basic error limit (operational limit at 25 °C)	
• Current, relative to input range, (+/-)	0.1 %; 20 µA
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Fail-safe operation • Group error SF (red) • Encoder supply Vs (green)	Yes Yes No
Potential separation	
Potential separation analog inputs	
• between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics	Yes Yes Yes
Isolation	
Isolation tested with	370V for 1 min
Standards, approvals, certificates	
CE mark	Yes

Highest safety class achievable in safety mode	
• acc. to EN 954	4
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin; Startup @ -25 °C
• max.	60 °C; = T max; *+70 °C when forced convection at a minimum air speed of 0.3 m/s through the modules is ensured. If in the course of maintenance or automatic diagnosis it is determined that the admissible specified parameters have been exceeded, the modules should be subjected to a proof test (function check) by the manufacturer.
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Extended ambient conditions	
• relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
• At cold restart, min.	-25 °C
Relative humidity	
— With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
— against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
— against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
— against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	350 g
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