

*** SPARE PART*** SIMATIC S7, ANALOG INPUT SM336, 6 AI; 14 BIT; 40 PIN, FAILSAFE ANALOG INPUTS FOR SIMATIC S7F SYSTEMS WITH DIAGNOST. INTERRUPT



Figure similar

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
From power supply L+, typ.	160 mA
from backplane bus 5 V DC, max.	90 mA
Power loss	
Power loss, typ.	4.25 W
Analog inputs	
Number of analog inputs	6
• For voltage measurement	4
permissible input voltage for voltage input (destruction limit), max.	30 V
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
• Voltage	Yes
• Current	Yes

Input ranges (rated values), voltages	
• 0 to +10 V	Yes
• Input resistance (0 to 10 V)	59 k Ω
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
• Input resistance (0 to 20 mA)	107 Ω
• 4 mA to 20 mA	Yes
• Input resistance (4 mA to 20 mA)	107 Ω
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	14 bit
• Integration time (ms)	20 ms (at 50 Hz); 16.66 ms (at 60 Hz)
• Interference voltage suppression for interference frequency f1 in Hz	38 dB
Encoder	
Connection of signal encoders	
• for current measurement as 2-wire transducer	Yes
• for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to input area, (+/-)	0.48 %
• Current, relative to input area, (+/-)	0.48 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to input area, (+/-)	0.4 %
• Current, relative to input area, (+/-)	0.4 %
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Alarms	
• Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Fail-safe operation	Yes
• Group error SF (red)	Yes
• Encoder supply Vs (green)	Yes
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

No
Yes
Yes; only if sensors are externally supplied

Isolation

Isolation tested with 500V DC/350V AC

Standards, approvals, certificates

Highest safety class achievable in safety mode

- Requirement class according to DIN V 19250 AK 6
- acc. to EN 954 Cat. 4
- SIL acc. to IEC 61508 SIL 3

Connection method

required front connector 40-pin

Dimensions

Width 80 mm
Height 125 mm
Depth 120 mm

Weights

Weight, approx. 480 g

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