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Data sheet 6ES7334-0KE00-0AB0



Figure similar

spare part SIMATIC S7-300, analog module SM 334, isolated, 4 AI/2 AO, 12 bit, 0-10 V for Pt100 (climatic range -120-155 degrees) and 10 kOhm measuring range, 1x 20-pole

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● Reverse polarity protection	Yes
Input current	
from supply and load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	60 mA
Power loss	
Power loss, typ.	2 W
Analog inputs	
Number of analog inputs	4
● For voltage measurement	2
● For resistance measurement	4
permissible input voltage for voltage input (destruction limit), max.	20 V; continuous; 75 V for max. 1 s (mark to space ratio 1:20)
Constant measurement current for resistance-type transmitter, typ.	490 µA; at PT100 (490 µA), at 10 kOhm (105 µa)
Cycle time (all channels) max.	85 ms
Input ranges	
● Voltage	Yes
● Current	No
● Thermocouple	No
● Resistance thermometer	Yes
● Resistance	Yes
Input ranges (rated values), voltages	
● 0 to +10 V	Yes
— Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), resistance thermometer	
● Pt 100	Yes; only climatic range
Input ranges (rated values), resistors	
● 0 to 10000 ohms	Yes
Characteristic linearization	
● Parameterizable	Yes
— for resistance thermometer	Pt100 (climate)
Cable length	
● shielded, max.	100 m
Analog outputs	
Number of analog outputs	2

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Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	30 mA
Output ranges, voltage	
● 0 to 10 V	Yes
Load impedance (in rated range of output)	
● with voltage outputs, min.	2.5 kΩ
● with voltage outputs, capacitive load, max.	1 µF
Cable length	
● shielded, max.	100 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	12 bit
● Integration time, parameterizable	Yes
● Integration time (ms)	16,67 / 20 ms
● Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	12 bit
● Conversion time (per channel)	500 µs
Settling time	
● for resistive load	0.8 ms
● for capacitive load	0.8 ms
Encoder	
Connection of signal encoders	
● for voltage measurement	Yes
● for resistance measurement with two-wire connection	Yes
● for resistance measurement with three-wire connection	Yes
● for resistance measurement with four-wire connection	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
● Voltage, relative to input range, (+/-)	0.7 %; 0 to 10V
● Resistance, relative to input range, (+/-)	3.5 %; 10 kOhm
● Resistance thermometer, relative to input range, (+/-)	1 %
● Voltage, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
● Voltage, relative to input range, (+/-)	0.5 %; 0 to 10V
● Resistance, relative to input range, (+/-)	2.8 %; 10 kOhm
● Resistance thermometer, relative to input range, (+/-)	0.8 %
● Voltage, relative to output range, (+/-)	0.85 %
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Potential separation	
Potential separation analog inputs	
● between the channels and backplane bus	Yes
Potential separation analog outputs	
● between the channels	No
● between the channels and backplane bus	Yes
● between the channels and the power supply of the electronics	Yes
Isolation	
Isolation tested with	500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm

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Weights

Weight, approx.	200 g

Classifications

	Version	Classification
eClass	16	27-24-22-01
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Confirmation

Miscellaneous

other

Confirmation

Environment

Environmental Con-firmations

Environmental Con-firmations

last modified: 4/7/2025

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