

## Data sheet

**6ES7134-4LB02-0AB0**



SIMATIC DP, Electronics module 2 AI U High Feature f. ET200S, 15 mm width, Cycle time per module: 0.5 ms, +/-10V; 15 bit+sign, +/-5 V; 15 bit+sign, 1.5 V; 15 bit, Operational limit +/-0.1% with SF LED (group fault)

### General information

Product function	
• Isochronous mode	Yes
<b>Supply voltage</b>	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
<b>Input current</b>	
from load voltage L+ (without load), max.	55 mA
from backplane bus 3.3 V DC, max.	10 mA
<b>Output voltage</b>	
Power supply to the transmitters	
• present	No
<b>Power loss</b>	
Power loss, typ.	0.85 W
<b>Address area</b>	
Address space per module	
• Address space per module, max.	4 byte
<b>Analog inputs</b>	
Number of analog inputs	2
permissible input voltage for voltage input (destruction limit), max.	35 V; 35 V continuous; 75 V for max. 1 ms
Cycle time (all channels) max.	0.5 ms; 0.5 ms for 2 channels without noise suppression, 18 / 21 ms per channel with noise suppression
<b>Input ranges (rated values), voltages</b>	
• 1 V to 5 V — Input resistance (1 V to 5 V)	Yes 800 kΩ
• -10 V to +10 V — Input resistance (-10 V to +10 V)	Yes 800 kΩ
• -5 V to +5 V — Input resistance (-5 V to +5 V)	Yes 800 kΩ
<b>Cable length</b>	
• shielded, max.	200 m
<b>Analog value generation for the inputs</b>	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit; 0 to 5 V: 15 bit, ±10 V: 16 bit, ±5 V: 16 bit
• Integration time, parameterizable	Yes

• Interference voltage suppression for interference frequency f1 in Hz	60 / 50 Hz / no
• Conversion time (per channel)	0.04 ms; Without noise suppression 17/20 ms per channel with error
<b>Smoothing of measured values</b>	
• parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time
• Step: None	Yes; 1x
• Step: low	Yes; 4x
• Step: Medium	Yes; 16x
• Step: High	Yes; 32x
<b>Encoder</b>	
Connection of signal encoders	
• for voltage measurement	Yes
<b>Errors/accuracies</b>	
Operational error limit in overall temperature range	
• Voltage, relative to input range, (+/-)	0.1 %; 0.2% without interference frequency suppression
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to input range, (+/-)	0.05 %; 0.1% without interference frequency suppression
<b>Interrupts/diagnostics/status information</b>	
Alarms	
• Hardware interrupt	Yes
Diagnoses	
• Wire-break	Yes; Measuring range 1 to 5 V only
• Group error	Yes
• Overflow/underflow	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
<b>Parameter</b>	
Remark	12 bytes, 4 bytes in compatibility mode
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
<b>Potential separation</b>	
Potential separation analog inputs	
• between the channels	No; however, increased permissible potential difference between the inputs.
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	45 g
<b>last modified:</b>	1/16/2021 