

SIEMENS

Product data sheet

6ES7135-4LB02-0AB0


SIMATIC DP,
ELECTRONIC MODULE 2 AO U HIGH FEATURE
FOR ET 200S,
15 MM WIDE,
CYCLE TIME PER MODULE: 0.5MS, +/-10V;
15 BIT + SIGN, 1 .. 5V;
15 BIT,
OPERATIONAL LIMITS +/-0.07% WITH LED SF
(GROUP FAULT)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, max.	1.2 W
Address area	
Address space per module	
Address space per module, max.	4 byte
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes

Voltage output, short-circuit current, max.	25 mA
Cycle time (all channels) max.	0.5 ms ; At max. 0.5 μ F
Output ranges, voltage	
1 to 5 V	Yes ; -5 to +5 V also implemented
-10 to +10 V	Yes
Connection of actuators	
for voltage output 2-conductor connection	Yes
for voltage output 4-conductor connection	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 k Ω
with voltage outputs, capacitive load, max.	0.5 μ F
Destruction limits against externally applied voltages and currents	
Voltages at the outputs towards MANA	15 V ; as required
Cable length	
Cable length, shielded, max.	200 m ; 100m if Twa < 2ms
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit ; 15 bits + sign
Settling time	
for resistive load	0.2 ms
for capacitive load	0.5 ms ; At max. 0.5 μ F
for inductive load	0.5 ms
Errors/accuracies	
Output ripple (based on output area, bandwidth 0 to 50 kHz)	+/- 0,02 %
Linearity error (relative to output area)	+/- 0,01 %
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in settled status at 25 °C (relative to output area)	+/- 0,01 %
Operational limit in overall temperature range	
Voltage, relative to output area	+/- 0,1 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area	+/- 0,05 %

Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Diagnostic messages	
Diagnostic information readable	Yes
Short circuit	Yes
Group error	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Remark	7 bytes
Output type/range	deactivated / 1 to 5 V / +/- 10 V / +/- 5 V
Diagnosis: short circuit	Disable / enable
Interference frequency suppression	No
Group diagnostics	Disable / enable
Behavior on CPU/Master STOP	Output current and de-energized/substitute a value/keep last value
Galvanic isolation	
Galvanic isolation analog outputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	Yes
Permissible potential difference	
between MANA and M internally (UISO)	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	40 g

Status

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