SIEMENS

Data sheet

6ES7134-6HD01-0BA1



SIMATIC ET 200SP, ANALOG INPUT MODULE, AI 4XU/I 2-WIRE STANDARD, PACKING UNIT: 1 PIECE, FITS TO BU-TYPE A0, A1, COLOR CODE CC03, MODULE DIAGNOSIS, 16BIT, +/-0,3%

General information		
Product type designation	Al 4x U/I 2-wire	
HW functional status	From FS02	
Firmware version		
 FW update possible 	Yes	
usable BaseUnits	BU type A0, A1	
Color code for module-specific color identification plate	CC03	
Product function		
● I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Measuring range scalable	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V14 / -	
 STEP 7 configurable/integrated from version 	V5.6 and higher	
 PCS 7 configurable/integrated from version 	V8.1 SP1	
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher	
 PROFINET from GSD version/GSD revision 	GSDML V2.3	
Operating mode		
 Oversampling 	No	
• MSI	No	
CiR - Configuration in RUN		
Reparameterization possible in RUN	Yes	
Calibration possible in RUN	No	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Input current		
Current consumption, max.	37 mA; without sensor supply	
Encoder supply		
24 V encoder supply		
• 24 V	Yes	
Short-circuit protection	Yes	
 Output current, max. 	20 mA; max. 50 mA per channel for a duration < 10 s	
Power loss		
Power loss, typ.	0.85 W; Without encoder supply voltage	
Address area		
Address space per module		
Address space per module, max.	8 byte; + 1 byte for QI information	

Hardware configuration	
	Yes
Automatic encoding	Yes
Mechanical coding element Type of machanical coding element	
Type of mechanical coding element Selection of BaseUnit for connection variants	Type A
	DILlama AO A4
2-wire connection	BU type A0, A1
Analog inputs	
Number of analog inputs	4; Differential inputs
permissible input voltage for voltage input (destruction limit), max.	30 V
permissible input current for current input (destruction limit), max.	50 mA
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)
Input ranges (rated values), voltages	
• 0 to +10 V	Yes; 15 bit
— Input resistance (0 to 10 V)	120 kΩ
• 1 V to 5 V	Yes; 15 bit
— Input resistance (1 V to 5 V)	120 kΩ
• -10 V to +10 V	Yes; 16 bit incl. sign
— Input resistance (-10 V to +10 V)	120 kΩ
• -5 V to +5 V	Yes; 16 bit incl. sign
— Input resistance (-5 V to +5 V)	120 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes; 15 bit
— Input resistance (0 to 20 mA)	100 Ω; + approx. 0.7 V diode forward voltage
• 4 mA to 20 mA	Yes; 15 bit
— Input resistance (4 mA to 20 mA)	100 Ω; + approx. 0.7 V diode forward voltage
Cable length	upp. o v d.odo to mara tomago
• shielded, max.	1 000 m; 200 m for voltage measurement
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
 Integration time, parameterizable 	Yes
Integration time, parameterizable Interference voltage suppression for interference	16.6 / 50 / 60 Hz
- interference voltage supplession for interference	
frequency f1 in Hz	
	180 / 60 / 50 ms
frequency f1 in Hz	
frequency f1 in Hz • Conversion time (per channel) Smoothing of measured values	180 / 60 / 50 ms
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels	
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable	180 / 60 / 50 ms 4; None; 4/8/16 times
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder	180 / 60 / 50 ms 4; None; 4/8/16 times
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders	180 / 60 / 50 ms 4; None; 4/8/16 times Yes
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement	180 / 60 / 50 ms 4; None; 4/8/16 times Yes
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max.	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min.	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 % 0.5 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 % 0.5 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 % 0.5 % 0.5 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer — Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 % 0.5 % 0.5 % 0.3 % 0.3 % 0.3 %
frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for current measurement as 2-wire transducer Burden of 2-wire transmitter, max. for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-) Current, relative to input range, (+/-)	180 / 60 / 50 ms 4; None; 4/8/16 times Yes Yes Yes 650 Ω No 0.01 % 0.005 %/K 50 dB 0.05 % 0.5 % 0.5 % 0.3 % 0.3 % 0.3 %

Common mode interference, min. Common mode interference, min.	Common mode voltage, max.	10 V
Interrupts/diagnostics/status information Diagnostics function Alarms Diagnostic alarm Limit value alarm	-	
Diagnostics function Alarms	·	30 42
Diagnostic alarm Yes		Yes
Diagnostic alarm Limit value alarm No No No No Diagnoses Monitioning the supply voltage Wire-break Short-circuit Signature Overflowinderflow Overflowinder		160
Diagnoses Monitoring the supply voltage Wire-break Nes with 1 to 5 V or 2-wire mode: Short-circuit of the encoder supply to ground or of an input to the encoder supply to ground or deal supply to ground or deal supply to ground encoder supply to ground encode		Yes
Diagnoses Yes Yes Yes Yes Yes Yes Yes Yes Wirb-break Short-circuit Yes; at 4 to 20 mA Yes; with 1 to 5 V or 2-wire mode. Short-circuit of the encoder supply to ground or of an input to the encoder supply to ground or of an input to the encoder supply to ground or of an input to the encoder supply to ground or of an input to the encoder supply Yes	-	
• Monitoring the supply voltage • Wire-break • Vire-break • Short-circuit • Short-circuit • Short-circuit • Short-circuit • Short-circuit • Short-circuit • Group error • Overflow/underflow • Yes • Overflow/underflow • Yes • Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • For channel diagnostics • For channel diagnostics • For overflow de diagnostics • For overflow de diagnostics • For overflow de diagnostics • For channel diagn		
Wire-break Short-circuit Short-circuit Stroup error Group error Overflowlunderflow Pes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics Formula separation Fotential separation channels between the channels between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Stuitable for applications according to AMS 2750 Suitable for applications according to CQL-9 Ambient conditions Ambient temperature during operation Formula installation, min. Foreign installation, min. Foreign installation, max Formula installation installatio		Yes
Short-circuit Group error Group error Overflow/underflow Plagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for ordule diagnostics For channel di		
Overflowfunderflow Piagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • between the channels • between the channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Pormissible potential difference between the inputs (UCM) Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient conditions Ambient conditions Ambient conditions Ambient conditions Antical installation, min. • for CC • vertical installation, min. • vertical installation perating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 50 °C Altitude during operation altitude above sea level, max. 50 °C Altitude during operation altitude above sea level • installation altitude above sea level • installation altitude above sea level • installation altitude above sea level		Yes; with 1 to 5 V or 2-wire mode: Short-circuit of the encoder supply to ground
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • No • for module diagnostics • Potential separation Potential separation Potential separation separation channels • between the channels and backplane bus • between the channels and the power supply of the electronics • between the channels and the power supply of the electronics • between the inputs (UCM) • Double to the channels and the power supply of the electronics Pormissible potential difference between the inputs (UCM) • Toy V DC (type test) Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient conditions Ambient conditions Ambient conditions Ambient stallation, min. • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • norizontal installation, min. • sao °C; < 0 °C as of FS02 • vertical installation, min. • vertical installation, min. • (a) °C; < 0 °C as of FS02 • (b) °C Altitude during operation relating to see level • Installation altitude above see level, max. Dimensions Width Height 73 mm Depth Weights	Group error	Yes
Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For channel diagnostics For module diagnostics	Overflow/underflow	Yes
Channel status display for channel diagnostics for module diagnostics Yes; green/red LED Potential separation Potential separation channels between the channels and backplane bus between the channels and backplane bus between the channels and the power supply of the electronics between the inputs (UCM) In V DC Isolation Isolation tested with Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation horizontal installation, min. chorizontal installation, min. cvertical installation relating to sea level consists of the sea of t	Diagnostics indication LED	
• for channel diagnostics • for module diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation tested with Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth S8 mm Wordsta	 Monitoring of the supply voltage (PWR-LED) 	Yes; green LED
• for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and backplane bus • between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max. • vertical installation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth Selevice Airman and voltage inputs group-specific between 2-wire current input group and voltage input group Yes; channel group-specific between 2-wire current input group and voltage input group Yes Yes; only for voltage inputs Yes;	Channel status display	Yes; green LED
Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation lested with To7 V DC (type test) Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, max. • vertical installation max. • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth S8 mm Weights	for channel diagnostics	No
Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation, max. • vertical installation, max. Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions Wesights	• for module diagnostics	Yes; green/red LED
between the channels between the channels and backplane bus between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) 10 V DC Isolation Solation Solation tested with To7 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation horizontal installation, min. horizontal installation, min. horizontal installation, max. vertical installation, max. vertical installation, max. long operation relating to sea level horisons Altitude during operation relating to sea level horizontal installation altitude above sea level, max. Dimensions Width Height 73 mm Depth Ses invitage inputs group Yes Yes; channel group-specific between 2-wire current input group and voltage inputs group Yes Yes; only for voltage inputs Yes Yes; only for voltage inputs Yes; only for voltage inputs Yes Yes; only for voltage inputs Yes Yes Yes Permissible for applications according to AMS 2750 Yes; Declaration of Conformity, see online support entry 109757262 Yes Ambient emperature during operation of Conformity, see online support entry 109757262 Yes Ambient emperature during operation of Conformity, see online support entry 109757262 Yes Conformity, see online support entry 109757262 Yes Ambient emperature during operation of Conformity, see online support entry 109757262 Yes Conformity, see online s	Potential separation	
between the channels and backplane bus between the channels and the power supply of the electronics Permissible potential difference between the inputs (UCM) Isolation Isolation Isolation tested with To7 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Yes; Declaration of Conformity, see online support entry 109757262 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max. • vertical installation relating to sea level • Installation altitude above sea level, max. Dimensions Width Height 73 mm Depth S8 mm Weights	Potential separation channels	
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electronics Permissible potential difference between the inputs (UCM) Isolation Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth Weights	 between the channels and backplane bus 	Yes
between the inputs (UCM) Isolation Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights		Yes; only for voltage inputs
Isolation Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Yes; Declaration of Conformity, see online support entry 109757262 Suitable for applications according to CQI-9 Yes Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, min. • vertical installation, min. • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Permissible potential difference	
Isolation tested with 707 V DC (type test) Standards, approvals, certificates Suitable for applications according to AMS 2750 Yes; Declaration of Conformity, see online support entry 109757262 Suitable for applications according to CQI-9 Yes Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	between the inputs (UCM)	10 V DC
Standards, approvals, certificates Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation ams. • vertical installation are. So °C; < 0 °C as of FS02 • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth Se mm Weights	Isolation	
Suitable for applications according to AMS 2750 Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. • vertical installation, max. • vertical installation telating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Isolation tested with	707 V DC (type test)
Suitable for applications according to CQI-9 Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. 60 °C • vertical installation, min. • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Standards, approvals, certificates	
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, max. 60 °C • vertical installation, min. • vertical installation, max. 50 °C • vertical installation, max. 50 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. 5000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Suitable for applications according to AMS 2750	Yes; Declaration of Conformity, see online support entry 109757262
Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. • Installation altitude above sea level • Installation altitude above sea level, max.	Suitable for applications according to CQI-9	Yes
 horizontal installation, min. horizontal installation, max. horizontal installation, max. vertical installation, min. 30 °C; < 0 °C as of FS02 vertical installation, max. vertical installation, max. C Altitude during operation relating to sea level Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width Height 73 mm Depth 58 mm Weights 	Ambient conditions	
 horizontal installation, max. vertical installation, min. -30 °C; < 0 °C as of FS02 vertical installation, max. 50 °C Altitude during operation relating to sea level Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Ambient temperature during operation	
 vertical installation, min. vertical installation, max. S0 °C Altitude during operation relating to sea level Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width Height 73 mm Depth 58 mm Weights 	 horizontal installation, min. 	-30 °C; < 0 °C as of FS02
 ◆ vertical installation, max. Altitude during operation relating to sea level ◆ Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width Height Depth 58 mm Weights 	 horizontal installation, max. 	60 °C
Altitude during operation relating to sea level Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	 vertical installation, min. 	-30 °C; < 0 °C as of FS02
● Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	 vertical installation, max. 	50 °C
Dimensions Width 15 mm Height 73 mm Depth 58 mm Weights	Altitude during operation relating to sea level	
Width 15 mm Height 73 mm Depth 58 mm Weights	 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Height 73 mm Depth 58 mm Weights	Dimensions	
Depth 58 mm Weights	Width	15 mm
Weights	Height	73 mm
	Depth	58 mm
Weight, approx. 31 g	Weights	
	Weight, approx.	31 g

last modified: 4/25/2024 🖸