SIEMENS

Data sheet

6ES7532-5HD00-0AB0



SIMATIC S7-1500, Analog output module AQ 4xU/I ST, 16 bit resolution, Accuracy 0.3%. 4 channels in groups of 4, diagnostics; Substitute value incl. infeed element, shield bracket and shield terminal

General information		
Product type designation	AQ 4xU/I ST	
HW functional status	FS01	
Firmware version	V2.0.0	
 FW update possible 	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
Output range scalable	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated as of version 	V12 / V12	
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -	
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET as of GSD version/GSD revision 	V2.3 / -	
Operating mode		
Oversampling	No	
• MSO	Yes	
CiR – Configuration in RUN		

Current consumption, max. 190 mA; with 24 V DC supply Power Power available from the backplane bus 0.6 W Power loss 4 W Analog outputs 4 W Analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage - • 0 to 10 V Yes • 10 V to 5 V Yes • 10 V to +10 V Yes • 0 to 20 mA Yes • 0 to roltage output two-wire connection Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes <t< th=""><th>Reparameterization possible in RUN</th><th>Yes</th></t<>	Reparameterization possible in RUN	Yes	
Rated value (bC) 24 V permissible range, lower limit (bC) 20.4 V permissible range, upper limit (bC) 28.8 V Reverse polarity protection Yes input current 190 mA; with 24 V DC supply Power 0.6 W Power available from the backplane bus 0.6 W Power loss Power loss Power loss 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 32 ms; independent of number of activated channels Output ranges, voltage • • to 10 V Yes • 10 to 20 mA Yes<	Calibration possible in RUN	Yes	
Rated value (bC) 24 V permissible range, lower limit (bC) 20.4 V permissible range, upper limit (bC) 28.8 V Reverse polarity protection Yes input current 190 mA; with 24 V DC supply Power 0.6 W Power available from the backplane bus 0.6 W Power loss Power loss Power loss 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 32 ms; independent of number of activated channels Output ranges, voltage • • to 10 V Yes • 10 to 20 mA Yes<	Supply voltage		
permissible range. upper limit (DC) 28.8 V Reverse polarity protection Yes input current 190 mA; with 24 V DC supply Power 0.6 W Power loss. 0.6 W Power loss. typ. 4 W Analog outputs 4 W Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage Yes • 0 to 10 V Yes • 0 to 10 V Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • for voltage output two-wire connection Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • corrent output two-wire connection Yes • for voltage output tour-wire connection Yes <		24 V	
Reverse polarity protection Yes input current 190 mA; with 24 V DC supply Power 0.6 W Power available from the backplane bus 0.6 W Power loss Power loss, typ. Power loss, typ. 4 W Analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • • 0 to 10 V Yes • 10 to 5 V Yes • 5 V to +5 V No • 10 V to +10 V Yes • 0 to 2 mA Yes • 20 mA to +20 mA Yes • 10 voltage output two-wire connection Yes Connection of actuators Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection	permissible range, lower limit (DC)	20.4 V	
Input current Current consumption, max. 190 mA; with 24 V DC supply Power Power valiable from the backplane bus 0.6 W Power loss 4 Power loss, typ. 4 W Analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • 10 to 10 V • 10 to 10 V Yes • 10 to 10 V Yes • 0 to 20 mA Yes • 0 ro voltage output two-wire connection Yes • 0 to 20 mA Yes • 0 ro voltage output two-wire connection Yes Connection of actuators Yes • for voltage output, scapacititw load, max.	permissible range, upper limit (DC)	28.8 V	
Current consumption, max. 190 mA; with 24 V DC supply Power Power available from the backplane bus 0.6 W Power loss 4 W Analog outputs 4 W Analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • • 0 to 10 V Yes • 0 to 10 V Yes • 10 V to +10 V Yes • 0 to 20 mA Yes • 10 V to +10 V Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • 10 V to stop coupt tour-wire connection Yes • for voltage output tour-wire	Reverse polarity protection	Yes	
Power Power available from the backplane bus 0.6 W Power loss 4 W Analog outputs 4 W Analog outputs 4 N Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 32 ms; independent of number of activated channels Output ranges, voltage • • 0 to 10 V Yes • 10 V to 5 V Yes • 10 V to 10 V Yes Output ranges, current • • 0 to 20 mA Yes • 20 mA Yes Connection of actuators • • for voltage output four-wire connection Yes • for voltage output two-wire connection Yes • for voltage output tym, min. <	Input current		
Power available from the backplane bus 0.6 W Power loss 4 W Analog outputs 4 Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 2 V Output ranges, voltage - • 0 to 10 V Yes • 1 V to 5 V Yes • -5 V to +5 V No • 10 V to +10 V Yes Output ranges, current - • 0 to 20 mA Yes • 10 V to +20 mA Yes • 10 V to +20 mA Yes • 0 to 20 mA Yes • 10 v to 420 mA Yes Connection of actuators - • for voltage output two-wire connection Yes Connection of actuators - • for voltage output two-wire connection Yes Load impedance (in rated range of output) - • with voltage outputs, min. 1 µF • with voltage outputs, max. 750 Ω	Current consumption, max.	190 mA; with 24 V DC supply	
Power loss Power loss, typ. 4 W Analog outputs 4 Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • • 0 to 10 V Yes • 10 to 5 V Yes • 1.0 V to +10 V Yes • 0 to 20 mA Yes • 0 to 20 mA Yes • 20 mA to +20 mA Yes • 20 mA to +20 mA Yes • 20 mA to 20 mA Yes • 0 to 20 mA Yes • 10 V to 10 V Yes Connection of actuators Yes • for voltage output two-wire connection Yes Connection Yes Load impedance (in rated range of output) Yes • with voltage outputs, capacitive load, max. 1 µF • with voltage outputs, capacitive load, max. 10 mH <td>Power</td> <td></td>	Power		
Power loss, typ. 4 W Analog outputs 4 Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • 0 to 10 V • 1 V to 5 V Yes • 1 0 V to +10 V Yes Output ranges, current • 0 to 20 mA • 20 mA to +20 mA Yes • 20 mA to +20 mA Yes • 20 mA to 20 mA Yes • or voltage output two-wire connection Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes Load impedance (in rated range of output) • with voltage outputs, capacitive load, max. • with voltage outputs, capacitive load, max. 1 μ F • with current outputs, max. 750 Ω • with current outputs, max. 10 mH <td>Power available from the backplane bus</td> <td>0.6 W</td>	Power available from the backplane bus	0.6 W	
Analog outputs 4 Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage * • 0 to 10 V Yes • 1 V to 5 V Yes • 1 V to 5 V Yes • 10 V to +10 V Yes • 10 v to +10 V Yes • 0 to 20 mA Yes • 10 v to +10 V Yes • 0 to 20 mA Yes • 20 mA to +20 mA Yes • 20 mA to +20 mA Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes • for current output two-wire connection Yes Load impedance (in rated range of output) • with voltage outputs, capacitive load, max. 1 µF • with voltage outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length <td< td=""><td>Power loss</td><td></td></td<>	Power loss		
Number of analog outputs 4 Voltage output, short-circuit protection Yes Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage • 0 to 10 V • 0 to 10 V Yes • 1 V to 5 V Yes • -10 V to +10 V Yes Output ranges, current • 0 to 20 mA • 0 to 20 mA Yes • 20 mA to +20 mA Yes • 20 mA to +20 mA Yes • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes • for voltage output, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage output, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, max. 750 Ω • with voltage outputs, max. 10 mH Cable length • with current outputs, inductive load, max. • with current outputs, inductive load, max. 10 mH	Power loss, typ.	4 W	
Voltage output, short-circuit protectionYesVoltage output, short-circuit current, max.24 mACurrent output, no-load voltage, max.22 VCycle time (all channels), min.3.2 ms; independent of number of activated channelsOutput ranges, voltage*********************************	Analog outputs		
Voltage output, short-circuit current, max. 24 mA Current output, no-load voltage, max. 22 V Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Output ranges, voltage - • 0 to 10 V Yes • 1 V to 5 V Yes • -5 V to +5 V No • -10 V to +10 V Yes Output ranges, current - • 0 to 20 mA Yes • -20 mA to +20 mA Yes • -20 mA to +20 mA Yes • for voltage output two-wire connection Yes Connection of actuators - • for voltage output two-wire connection Yes • for voltage output two-wire connection Yes Load impedance (in rated range of output) - • with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, max. 750 Ω • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length - • shielded, max. 800 m; for current, 200 m for voltage	Number of analog outputs	4	
Current output, no-load voltage, max.22 VCycle time (all channels), min.3.2 ms; independent of number of activated channelsOutput ranges, voltage \cdot • 0 to 10 VYes• 1 V to 5 VYes• 1 V to 5 VYes• -5 V to +5 VNo• -10 V to +10 VYes• 0 to 20 mAYes• 0 to 20 mAYes• 0 to 20 mAYes• 1 mather of activated of number of activated channels• 0 to 20 mAYes• 0 to 20 mAYes• 1 mather of actuatorsYes• 1 mather of a mather of actuatorsYes• 1 mather of actuatorsYes• 1 mather of actuatorsYes• 1 mather of ange of output)Yes• 1 mather on actuatorsYes• 1 mather on ange of output)Yes• 1 mather on ange of output)Yes• with voltage outputs, max.1 µF• with current outputs, inductive load, max.10 mHCable lengthImather of ange of output• with current outputs, inductive load, max.800 m; for current, 200 m for voltage	Voltage output, short-circuit protection	Yes	
Cycle time (all channels), min. 3.2 ms; independent of number of activated channels Cutput ranges, voltage ************************************	Voltage output, short-circuit current, max.	24 mA	
Output ranges, voltage 0 to 10 V Yes 1 V to 5 V Yes - 5 V to +5 V No 5 V to +5 V Yes - 10 V to +10 V Yes Output ranges, current Yes - 0 to 20 mA Yes - 20 mA to +20 mA Yes - 20 mA to +20 mA Yes - 4 mA to 20 mA Yes For voltage output two-wire connection Yes - for voltage output two-wire connection Yes - for voltage output four-wire connection Yes - for voltage output, min. Yes - with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V - with voltage outputs, max. 750 Ω - with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	Current output, no-load voltage, max.	22 V	
• 0 to 10 VYes• 1 V to 5 VYes• 1 V to 5 VNo• - 5 V to +5 VNo• - 10 V to +10 VYesOutput ranges, currentYes• 0 to 20 mAYes• 20 mA to +20 mAYes• 4 mA to 20 mAYes• 6 ro voltage output two-wire connectionYes• for voltage output two-wire connectionYes• to voltage output two-wire connectionYes• with voltage output two-wire connectionYes• to voltage output two-wire connectionYes• to voltage output two-wire connectionYes• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.750 Ω• with current outputs, inductive load, max.10 mHCable length• with current outputs, inductive load, max.800 m; for current, 200 m for voltage	Cycle time (all channels), min.	3.2 ms; independent of number of activated channels	
i V to 5 VYes• 5 V to +5 VNo• -10 V to +10 VYesOutput ranges, current• 0 to 20 mAYes• 0 to 20 mAYes• 20 mA to +20 mAYes• 4 mA to 20 mAYes• 6 ro voltage output two-wire connectionYes• for voltage output two-wire connectionYes• to voltage output two-wire connectionYes• with voltage output two-wire connectionYes• to voltage output two-wire connectionYes• to voltage output two-wire connectionYes• with voltage output two-wire connectionYes• to voltage output two-wire connectionYes• to voltage output two-wire connectionYes• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable lengthto min for current, 200 m for voltage	Output ranges, voltage		
5 V to +5 V No 10 V to +10 V Yes Output ranges, current Yes 20 mA to +20 mA Yes 20 mA to youtput four-wire connection Yes 10 voltage output four-wire connection Yes 10 twith voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V	• 0 to 10 V	Yes	
• -10 V to +10 VYesOutput ranges, currentYes• 0 to 20 mAYes• -20 mA to +20 mAYes• 4 mA to 20 mAYes• 4 mA to 20 mAYes• 6 ro voltage output two-wire connectionYes• for voltage output four-wire connectionYes• for voltage output four-wire connectionYes• for current output two-wire connectionYes• for current output two-wire connectionYes• for current output two-wire connectionYes• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.1 μF• with current outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable length• shielded, max.800 m; for current, 200 m for voltage	• 1 V to 5 V	Yes	
Output ranges, current Yes • 0 to 20 mA Yes • -20 mA to +20 mA Yes • 4 mA to 20 mA Yes • 4 mA to 20 mA Yes • 6 ro voltage output two-wire connection Yes • for voltage output two-wire connection Yes • for current output two-wire connection Yes • with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, capacitive load, max. 1 μF • with current outputs, inductive load, max. 10 mH Cable length Io mH	• -5 V to +5 V	No	
• 0 to 20 mAYes• -20 mA to +20 mAYes• 4 mA to 20 mAYesConnection of actuatorsYesConnection of actuatorsYes• for voltage output two-wire connectionYes• for voltage output four-wire connectionYes• for current output two-wire connectionYes• for current output two-wire connectionYes• with voltage output four-wire connectionYes• with voltage output, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.1 μF• with current outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable length• shielded, max.800 m; for current, 200 m for voltage	• -10 V to +10 V	Yes	
• -20 mA to +20 mAYes• 4 mA to 20 mAYesConnection of actuatorsYes• for voltage output two-wire connectionYes• for voltage output four-wire connectionYes• for current output two-wire connectionYes• for current output two-wire connectionYes• for current output two-wire connectionYes• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.1 μF• with current outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable length• shielded, max.800 m; for current, 200 m for voltage	Output ranges, current		
• 4 mA to 20 mA Yes Connection of actuators Yes • for voltage output two-wire connection Yes • for voltage output four-wire connection Yes • for current output two-wire connection Yes Load impedance (in rated range of output) Yes • with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, capacitive load, max. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	• 0 to 20 mA	Yes	
Connection of actuators Yes • for voltage output two-wire connection Yes • for voltage output four-wire connection Yes • for current output two-wire connection Yes Load impedance (in rated range of output) Yes • with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, capacitive load, max. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	• -20 mA to +20 mA	Yes	
• for voltage output two-wire connectionYes• for voltage output four-wire connectionYes• for current output two-wire connectionYes• data impedance (in rated range of output)Yes• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.1 μF• with current outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable length800 m; for current, 200 m for voltage	• 4 mA to 20 mA	Yes	
• for voltage output four-wire connection Yes • for current output two-wire connection Yes Load impedance (in rated range of output) 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, capacitive load, max. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	Connection of actuators		
• for current output two-wire connectionYesLoad impedance (in rated range of output)1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, min.1 kΩ; 0.5 kOhm at 1 to 5 V• with voltage outputs, capacitive load, max.1 μF• with current outputs, max.750 Ω• with current outputs, inductive load, max.10 mHCable length800 m; for current, 200 m for voltage	 for voltage output two-wire connection 	Yes	
Load impedance (in rated range of output) 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, min. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	 for voltage output four-wire connection 	Yes	
• with voltage outputs, min. 1 kΩ; 0.5 kOhm at 1 to 5 V • with voltage outputs, capacitive load, max. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length • shielded, max. 800 m; for current, 200 m for voltage	 for current output two-wire connection 	Yes	
• with voltage outputs, capacitive load, max. 1 μF • with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length • shielded, max. 800 m; for current, 200 m for voltage	Load impedance (in rated range of output)		
• with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	 with voltage outputs, min. 	1 kΩ; 0.5 kOhm at 1 to 5 V	
• with current outputs, max. 750 Ω • with current outputs, inductive load, max. 10 mH Cable length 800 m; for current, 200 m for voltage	 with voltage outputs, capacitive load, max. 	1 μF	
 with current outputs, inductive load, max. Cable length shielded, max. 800 m; for current, 200 m for voltage 		750 Ω	
Cable length shielded, max. 800 m; for current, 200 m for voltage		10 mH	
• shielded, max. 800 m; for current, 200 m for voltage			
Analog value generation for the outputs		800 m; for current, 200 m for voltage	
	Analog value generation for the outputs		

Integration and conversion time/resolution per channel		
 Resolution with overrange (bit including sign), 	16 bit	
max.		
 Conversion time (per channel) 	0.5 ms	
Settling time		
 for resistive load 	1.5 ms	
 for capacitive load 	2.5 ms	
 for inductive load 	2.5 ms	
F		
Errors/accuracies Output ripple (relative to output range, bandwidth 0 to	0.02 %	
50 kHz), (+/-)	0.02 /0	
Linearity error (relative to output range), (+/-)	0.15 %	
Temperature error (relative to output range), (+/-)	0.002 %/K	
Crosstalk between the outputs, max.	-100 dB	
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %	
Operational error limit in overall temperature range		
 Voltage, relative to output range, (+/-) 	0.3 %	
• Current, relative to output range, (+/-)	0.3 %	
Basic error limit (operational limit at 25 °C)		
 Voltage, relative to output range, (+/-) 	0.2 %	
• Current, relative to output range, (+/-)	0.2 %	
Isochronous mode		
Isochronous operation (application synchronized up	No	
to terminal)		
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnostic messages		
 Monitoring the supply voltage 	Yes	
• Wire-break	Yes; Only for output type "current"	
Short-circuit	Yes; Only for output type "voltage"	
Overflow/underflow	Yes	
Diagnostics indication LED		
• RUN LED	Yes; Green LED	
• ERROR LED	Yes; Red LED	
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED	
 Channel status display 	Yes; Green LED	
 for channel diagnostics 	Yes; Red LED	
 for module diagnostics 	Yes; Red LED	

Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels, in groups of 	4
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Permissible potential difference	
between S- and MANA (UCM)	8 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Decentralized operation	
Prioritized startup	No
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	310 g
last modified:	01/29/2018