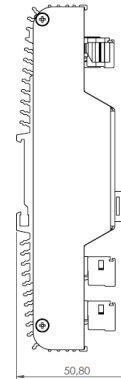




symbolic illustration




- 16 digital In- and 16 digital Outputs (Relais)
- 16 analog In- or 16 analog Outputs



Specification	
Processor	32 Bit Cortex-M4 CPU 180 MHz with CAN
Memory	0,25 MByte RAM, 2 MByte Flash , 8 kByte Eeprom
Interface	
Field bus interface	1 x CAN acc. ISO 11898 with galvanically isolation (2 x RJ45 In/Out)
Functions	
CANopen Slave	Software implementation on one of the CAN interfaces
Bestell-Nr.:	
25212.0000	robusto slave - RSC123; 16DI, 16DO, 16AIO
Environment/ mechanical values	
Supply voltage	24 VDC (-15% / +20%) SELV with reverse polarity
Housing	robusto heat sink with device lid
Protection class	IP20, acc. EN 60529
Mounting	snap-in mounting on top-hat rail DIN50022
Outside dimensions in mm (w x h x d)	approx. 240 x 156 x 50
Weight app.	500 g
oper	0 °C...55 °C
Storage temperature	-20°C... 70°C
Relat	10%...85% non-condensing
Relat	5%...85% non-condensing
Cooling	Passive heat sink
Diagnostic	
LED's	LEDs for operating- and status reports; LED Power; LED status I/O
Digital Inputs	
Number	16
Input voltage	24 VDC without galvanically isolation, EN61131-2 type 3
Frequency max.	100 Hz +/- 20%, duty cycle high/low:1:1
Over voltage	33 V
Dissipation loss	0,2 watt per input
Connection	2 x socket 10-pole; contact spacing 3,5 mm, flexible: conductor cross section 0,5 ... 1,0 mm <sup>2</sup> rigid: conductor cross section 0,75... 1,5mm <sup>2</sup> WAGO: 250-716

Digital Outputs (Relais)			
Number	16 x relais, potential free		
Output voltage	230 VAC, switching voltage		
Output current	3 A (max.10 A per terminal block), must be fused externally		
Switching frequency Ohm/inductive	10 Hz		
Connection	2 x socket 32-pole; contact spacing 5 mm, flexible: conductor crosssection 0,5 ... 1,0 mm <sup>2</sup> , starr: conductor cross section 0,75 ... 1,5 mm <sup>2</sup> , WAGO: 250-716		
Analog In- and Outputs			
Number	16		
Analog input types of sensors :	KTY81-1, KTY81-2 Ni1000, Ni1000-TK5000 PT100, PT1000, PT500 (2- oder 3-wire) TC (B,E,J,K,L,N,R,S,T) NTC Voltage : - 10...+ 10 VDC Current : 0...+ 20 mA Resistance: 0...200 kOhm		
Analog output types of sensors :	Voltage : - 10...+ 10 VDC Current : 0...+ 20 mA		
Accuracy	± 80 µA over input current 0..20 mA ± 40 mV over input voltage 0..10 V		
Conversion time	100 ms of all analog channels		
Current measuring range	Ain	0(4)...20 mA	Type: Ampere Resolution: 11µA/digit
	Aout	0(4)...20 mA	Ampere Resolution: 12µA/digit
Voltage measuring range	Ain	-10...10 V	Volt Resolution: 6mV/digit
	Vout	-10...10 V	Volt Resolution: 6mV/digit
Temperature measuring range		-55...150°C	*KTY81-1 Resolution: 0,21°C/digit
		-55...150°C	*KTY81-2 Resolution: 0,42°C/digit
		-50...150°C	*KTY110/130 Resolution: 0,42°C/digit
		-20...150°C	NTC10K <sup>1</sup> nicht linear
		-60...690°C	*NI1000 Resolution: 0,85°C/digit (at 1 mA)
		-60...690°C	*NI1000TK5000 Resolution: 0,85°C/digit (at 1 mA)
		-200...850°C	PT100 Resolution: 0,7°C/digit (bei 1 mA)
		-200...850°C	*PT500 Resolution: 0,65°C/digit
		-200...850°C	PT1000 Resolution: 0,59°C/digit
		0...1820°C	*TC Typ B Resolution: 2,475°C/digit
		-90...780°C	*TC Typ E Resolution: 0,255°C/digit
		-100...1020°C	*TC Typ J Resolution: 0,33°C/digit
		-150...1370°C	TC Typ K (Ni-CrNi) Resolution: 0,465°C/digit
		-105...1010°C	*TC Typ L (Fe-CuNi) Resolution: 0,33°C/digit
		-270...1300°C	*TC Typ N Resolution: 0,525°C/digit
		0...1760°C	*TC Typ R Resolution: 1,575°C/digit
		0...1760°C	*TC Typ S (Pt-RhPt) Resolution: 1,8°C/digit
		-160...400°C	*TC Typ T Resolution: 0,375°C/digit
		0...200 kOhm	resistance in preparation
AD converter analog input	12-bit		
D/A-converter analog output	12-bit		
Current	0,1 A		
Conversion time	100 ms of all analog channels		

Connection		8 x multipoint socket connector 6-pole; contact spacing 3,5 mm, conductor crosssection up to 0,2 ...1,0 mm <sup>2</sup> , 8 A WAGO: 714-136
	*	in preperation
	1	further types, e.g. NTC1K, NTC2K... adjustable via parameter einstellbar, (see device dedescription)
Standards		
Product standard	EN61131-2	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007
Immunity and interference	EN61000-6-2	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Emission standard for industrial environments (IEC 61000-6-2:2005); German version EN 61000-6-2:2005
	EN61000-6-4	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German version EN 61000-6-4:2007 + A1:2011
Accessories		
25001.0005		Connector set composed of: 2x socket 10-pole; contact spacing 3,5 mm, , conductor crosssection up to 0,2 ... 1,0 mm <sup>2</sup> , 8 A Serie 714-110 8 x socket 10-pole; contact spacing 3,5 mm, , conductor crosssection up to 0,2 ... 1,0 mm <sup>2</sup> , 8 A Serie 714-106 1 x socket 3-pole , Wago 734-103/037-000
		
Applications		
		in many industries such as plastics, medical- and automation technology

Illustrations, descriptions, dimensions and specifications correspond to the circumstances or intentions at the time of printing this brochure. Changes of any kind, especially those resulting from technological progress, economic performance or a similar will be without notice .The external interconnection of equipment will be on your own responsibility

\*Remark: The use of standard memory card (e.g. CF-cards is generally possible. Anyhow elrest GmbH does not take any responsibility thereby.

elrest Automationssysteme GmbH • Leibnizstraße 10 • 73230 Kirchheim unter Teck • Tel.: +49 (0) 7021 92025-0

© 2014 • www.elrest.de • All rights reserved



E601324-1.6