

Analogue I/O extension module, Zelio Logic, 4 I/O, 24 V DC

SR3XT43BD

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Range of product	Zelio Logic		
Product or component type	Analogue I/O extension module		
Complementary			
Analogue input number	2		
Analogue input type	Common mode		
Analogue input range	010 V 020 mA -25125 °C		
Temperature probe type	Pt 100, 3-wire conforming to IEC 751		
Maximum permissible voltage	30 V for analogue input circuit		
[Imp] maximum permanent current	30 mA for analogue input circuit		
Analogue input resolution	10 bits on the input range		
Input impedance	18 kOhm, input range: 010 V for analogue input circuit 247 Ohm, input range: 020 mA for analogue input circuit		
Analogue output number	2		
Analogue output range	010 V		
Analogue output resolution	10 bits on the output range		
Load type	Resistive load for analogue output		
Maximum load current	10 mA for analogue output		
Short-circuit protection	With analogue output		
LSB value	0.15 °C, - 25125 °C for analogue input circuit 20 μA, 020 mA for analogue input circuit 9.8 mV, 010 V for analogue input circuit 9.8 mV, 010 V for analogue output		
Conversion time	Smart relay cycle time for analogue input circuit Smart relay cycle time for analogue output		
Conversion error	+/- 1 % of the full scale value, input range: 010 V (25 °C) for analogue output +/- 1 % of the full scale value, input range: 010 V (55 °C) for analogue output +/- 1 %, input range: 010 V (25 °C) for analogue input circuit +/- 1 %, input range: 010 V (55 °C) for analogue input circuit +/- 1 %, input range: 020 mA (25 °C) for analogue input circuit +/- 1 %, input range: 020 mA (55 °C) for analogue input circuit +/- 1.5 °C, input range: -25125 °C (25 °C) for analogue input circuit +/- 1.5 °C, input range: -25125 °C (55 °C) for analogue input circuit		
Repeat accuracy	< +/- 0.3 °C, input range: - 25125 °C at 25 °C for analogue input circuit <= +/- 1 %, input range: 010 V at 25 °C for analogue input circuit <= +/- 1 %, input range: 010 V at 55 °C for analogue output		

Operating distance	10 m with screened cable for analogue input circuit 10 m with screened cable for analogue output	
Reverse polarity protection	Analogue input circuit: with	
Connections - terminals	Screw terminals, 1 x 0.251 x 2.5 mm² (AWG 24AWG 14) semi-solid Screw terminals, 1 x 0.251 x 2.5 mm² (AWG 24AWG 14) solid Screw terminals, 2 x 0.252 x 1.5 mm² (AWG 23AWG 16) solid Screw terminals, 1 x 0.251 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.252 x 0.75 mm² (AWG 24AWG 18) flexible with cable end	
Tightening torque	0.5 N.m	
Net weight	0.11 kg	
Environment		
Product certifications	GOST UL C-Tick CSA	
Standards	EN/IEC 61000-4-12 EN/IEC 61000-4-5 EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 60068-2-6 Fc EN/IEC 60068-2-7 Ea	
IP degree of protection	IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529	
Environmental characteristic	EMC directive conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2	
Disturbance radiated/ conducted	Class B conforming to EN 55022-11 group 1	
Pollution degree	2 conforming to EN/IEC 61131-2	
Ambient air temperature for operation	-2040 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 -2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2	
Ambient air temperature for storage	-4070 °C	
Operating altitude	2000 m	
Maximum altitude transport	3048 m	
Relative humidity	95 % without condensation or dripping water	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	105.0 g	
Package 1 Height	6.1 cm	
Package 1 width	6.5 cm	
Package 1 Length	11 cm	
Unit Type of Package 2	S03	
Number of Units in Package 2	48	
Package 2 Weight	5.503 kg	
Package 2 Height	30 cm	
Package 2 width	30 cm	
Package 2 Length	40 cm	

Offer Sustainability

Warranty

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

18 months

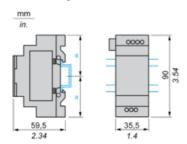
Product data sheet

SR3XT43BD

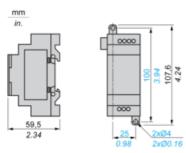
Dimensions Drawings

Analog I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)



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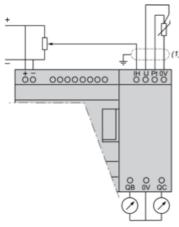
Connections and Schema

Connection of Smart Relays on DC Supply, with Analog I/O Extension Module

Connection Alternatives

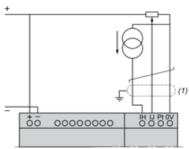
0 - 10 V	0 - 20 mA	Pt100
2	0	0
1	1	0
0	2	0
1	0	1
0	1	1

Application Example with 1 x 0 - 10 V Input and 1 x Pt100 Input



(1) Screened cables, maximum length 10 m/32.80 ft.

Application Example with 1 x 0 - 20 mA Input and 1 x 0 - 10 V Input



(1) Screened cables, maximum length 10 m/32.80 ft.

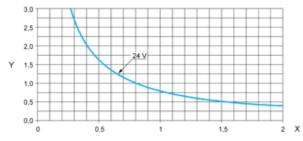
Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

DC-12 (1)

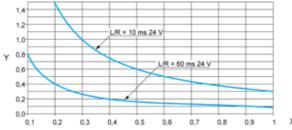


X: Current (A)

Y: Millions of operating cycles

(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, $L/R \le 1$ ms.

DC-13 (1)



X: Current (A)

Y: Millions of operating cycles

(1) DC-13: switching electromagnets, $L/R \le 2 \times (Ue \times Ie)$ in ms, Ue: rated operational voltage, Ie: rated operational current (with a protection diode on the load, DC-12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles).