

Product data sheet

Specifications



analogue IO extension module, Zelio Logic SR2 SR3, 4 IO, 24V DC

SR3XT43BD

Product availability: Stock - Normally stocked in distribution facility

Main

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	0...10 V 0...20 mA -25...125 °C
Temperature probe type	Pt 100, 3-wire IEC 751
Maximum permissible voltage	30 V analogue input circuit
[Imp] maximum permanent current	30 mA analogue input circuit
Analogue input resolution	10 bits on the input range
Input impedance	18 kOhm 0...10 V analogue input circuit 247 Ohm 0...20 mA analogue input circuit
Analogue output number	2
Analogue output range	0...10 V
Analogue output resolution	10 bits on the output range
Load type	Resistive analogue output
Maximum load current	10 mA analogue output
Short-circuit protection	With analogue output
LSB value	0.15 °C, - 25...125 °C analogue input circuit 20 µA, 0...20 mA analogue input circuit 9.8 mV, 0...10 V analogue input circuit 9.8 mV, 0...10 V analogue output
Conversion time	Smart relay cycle time analogue input circuit Smart relay cycle time analogue output
Conversion error	+/- 1 % of the full scale value 0...10 V 77 °F (25 °C))analogue output +/- 1 % of the full scale value 0...10 V 131 °F (55 °C))analogue output +/- 1 % 0...10 V 77 °F (25 °C))analogue input circuit +/- 1 % 0...10 V 131 °F (55 °C))analogue input circuit +/- 1 % 0...20 mA 77 °F (25 °C))analogue input circuit +/- 1 % 0...20 mA 131 °F (55 °C))analogue input circuit +/- 1.5 °C - 25...125 °C 77 °F (25 °C))analogue input circuit +/- 1.5 °C - 25...125 °C 131 °F (55 °C))analogue input circuit
Repeat accuracy	< +/- 0.3 °C - 25...125 °C 77 °F (25 °C) analogue input circuit <= +/- 1 % 0...10 V 77 °F (25 °C) analogue input circuit <= +/- 1 % 0...10 V 131 °F (55 °C) analogue output <= +/- 1 % 0...20 mA 77 °F (25 °C) analogue input circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating distance	10 m with screened cable analogue input circuit 10 m with screened cable analogue output
Reverse polarity protection	Analogue input circuit with
Connections - terminals	Screw terminals, 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14) semi-solid Screw terminals, 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14) solid Screw terminals, 2 x 0.25...2 x 1.5 mm² AWG 23...AWG 16) solid Screw terminals, 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.25...2 x 0.75 mm² AWG 24...AWG 18) flexible with cable end
Tightening torque	4.4 lbf.in (0.5 N.m)
Product Weight	0.24 lb(US) (0.11 kg)

Environment

Product Certifications	GOST UL C-tick CSA
Standards	IEC 61000-4-12 IEC 61000-4-5 IEC 61000-4-3 IEC 61000-4-4 level 3 IEC 61000-4-6 level 3 IEC 61000-4-2 level 3 IEC 60068-2-6 Fc IEC 61000-4-11 IEC 60068-2-27 Ea
IP degree of protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel)
Environmental characteristic	EMC directive conforming to IEC 61000-6-2 EMC directive conforming to IEC 61000-6-3 EMC directive conforming to IEC 61000-6-4 EMC directive conforming to IEC 61131-2 zone B Low voltage directive conforming to IEC 61131-2
Disturbance radiated/conducted	Class B IEC 55022-11 Group 1
Pollution degree	2 IEC 61131-2
Ambient air temperature for operation	-4...104 °F (-20...40 °C) IEC 60068-2-1 and IEC 60068-2-2 -4...131 °F (-20...55 °C) IEC 60068-2-1 and IEC 60068-2-2
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Operating altitude	6561.68 ft (2000 m)
Maximum altitude transport	10000.0000000000 ft (3048 m)
Relative Humidity	95 % without condensation or dripping water

Ordering and shipping details

Category	US1000I22378
Discount Schedule	000I
GTIN	3389119203968
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.36 in (6.000 cm)

Package 1 Width	2.56 in (6.500 cm)
Package 1 Length	4.33 in (11.000 cm)
Package 1 Weight	3.704 oz (105.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	12.161 lb(US) (5.516 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	117
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ab7a5df6-4d23-4fb1-96de-7c15d64130aa
REACH Regulation	REACH Declaration
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
PVC free	Yes

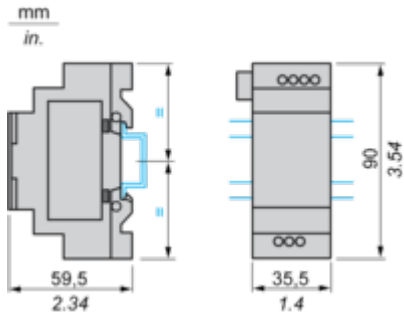
Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

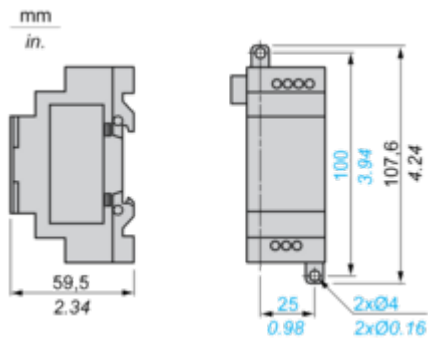
Dimensions Drawings

Analog I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)



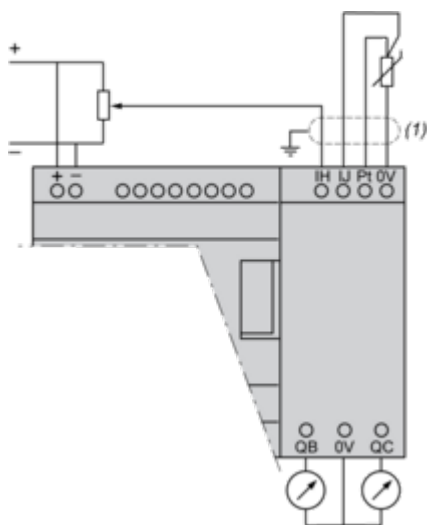
Connections and Schema

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

Connection Alternatives

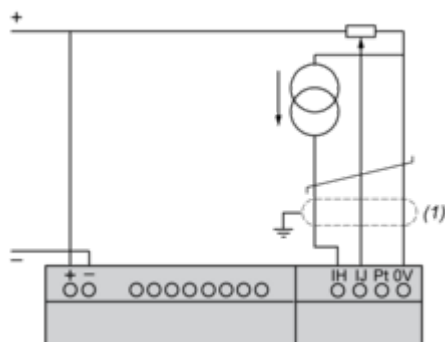
0 - 10 V	0 - 20 mA	Pt100
2	0	0
1	1	0
0	2	0
1	0	1
0	1	1

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.

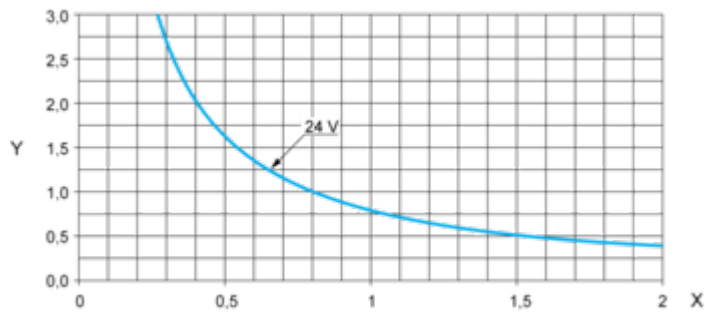
Performance Curves

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)

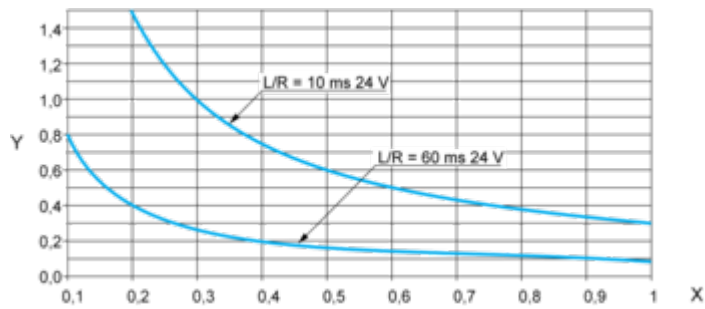


X: Current (A)

Y: Millions of operating cycles

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

DC-13 (1)



X: Current (A)

Y: Millions of operating cycles

(1) DC-13: switching electromagnets, $L/R \leq 2 \times (U_e \times I_e)$ in ms, U_e : rated operational voltage, I_e : 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).

Image of product / Alternate images

Alternative



