SR3B262BD
modular smart relay Zelio Logic - 26 I O - 24 V DC
- clock - display

Product availability: Stock - Normally stocked in distribution facility

Price*: 464.00 USD

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**Main**

Range of product
Zelio Logic

Product or component type
Modular smart relay

**Complementary**

Local display
With

Number or control scheme lines
- 0...500 with FBD programming
- 0...240 with ladder programming

Cycle time
6...90 ms

Backup time
10 years at 77 °F (25 °C)

Clock drift
- 6 s/month at 77 °F (25 °C)
- 12 min/year at 32...131 °F (0...55 °C)

Checks
Program memory on each power up

[Us] rated supply voltage
24 V

Supply voltage limits
19.2...30 V

Supply current
- 180 mA (with extensions)
- 70 mA (without extension)

Power dissipation in W
- 10 W with extensions
- 5 W without extension

Reverse polarity protection
With

Discrete input number
16 conforming to EN/IEC 61131-2 type 1

Discrete input type
Resistive

Discrete input voltage
24 V DC

Discrete input current
4 mA

Counting frequency
1 kHz for discrete input

Voltage state 1 guaranteed
- >= 15 V for I1...IA and IH...IR discrete input circuit
- >= 15 V for IB...IG used as discrete input circuit

Voltage state 0 guaranteed
- <= 5 V for I1...IA and IH...IR discrete input circuit
- <= 5 V for IB...IG used as discrete input circuit

Current state 1 guaranteed
- >= 1.2 mA for IB...IG used as discrete input circuit
- >= 2.2 mA for I1...IA and IH...IR discrete input circuit

Current state 0 guaranteed
- <= 0.5 mA for IB...IG used as discrete input circuit
- <= 0.75 mA for I1...IA and IH...IR discrete input circuit

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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.
### Input compatibility
3-wire proximity sensors PNP (discrete input)

### Analogue input number
6

### Analogue input type
Common mode

### Analogue input range
- 0...10 V
- 0...24 V

### Maximum permissible voltage
30 V (analogue input circuit)

### Analogue input resolution
8 bits

### LSB value
39 mV (analogue input circuit)

### Conversion time
Smart relay cycle time analogue input circuit

### Conversion error
- +/- 5 % at 77 °F (25 °C) for analogue input circuit
- +/- 6.2 % at 131 °F (55 °C) for analogue input circuit

### Repeat accuracy
- +/- 2 % at 131 °F (55 °C) for analogue input circuit

### Operating distance
10 m between stations, with screened cable (sensor not isolated) analogue input circuit

### Input impedance
- 12 kOhm (IB...IG used as analogue input circuit)
- 12 kOhm (IB...IG used as discrete input circuit)
- 7.4 kOhm (I1...IA and IH...IR discrete input circuit)

### Number of outputs
10 transistor output(s)

### Output voltage
24 V (transistor output)

### Output voltage limits
19.2...30 V DC (transistor output)

### [Uimp] rated impulse withstand voltage
4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1

### Load current
0.5...0.625 A (transistor output)

### [Ures] residual voltage
<= 2 V at state 1 (transistor output)

### Overload protection
With, transistor output

### Short-circuit protection
With transistor output

### Overvoltage protection
With, transistor output

### Clock
With

### Response time
- <= 1 ms (from state 0 to state 1) transistor output
- <= 1 ms (from state 1 to state 0) transistor output

### Connections - terminals
Screw terminals, clamping capacity:
- 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14 semi-solid
- 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14 solid

### Tightening torque
4.42 lbf.in (0.5 N.m)

### Overvoltage category
III conforming to EN/IEC 60664-1

### Product weight
0.66 lb(US) (0.3 kg)

## Environment

### Immunity to microbreaks
<= 1 ms

### Product certifications
CSA
C-Tick
GL
GOST
UL

### Standards
EN/IEC 60068-2-27 Ea
EN/IEC 60068-2-6 Fc
EN/IEC 61000-4-11
EN/IEC 61000-4-12
EN/IEC 61000-4-2 level 3
EN/IEC 61000-4-3
EN/IEC 61000-4-4 level 3
EN/IEC 61000-4-5
EN/IEC 61000-4-6 level 3

### 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
<table>
<thead>
<tr>
<th>Disturbance radiated/conducted</th>
<th>Class B conforming to EN 55022-11 group 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollution degree</td>
<td>2 conforming to EN/IEC 61131-2</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-4...104 °F (-20...40 °C) in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2</td>
</tr>
<tr>
<td>Ambient air temperature for storage</td>
<td>-4...158 °F (-40...70 °C)</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>6561.68 ft (2000 m)</td>
</tr>
<tr>
<td>Altitude transport</td>
<td>&lt;= 10000 ft (3048 m)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>95 % without condensation or dripping water</td>
</tr>
</tbody>
</table>

**Ordering and shipping details**

<table>
<thead>
<tr>
<th>Category</th>
<th>22378 - SR2,3 ZELIO 2 RELAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount Schedule</td>
<td>I</td>
</tr>
<tr>
<td>GTIN</td>
<td>00785901422495</td>
</tr>
<tr>
<td>Nbr. of units in pkg.</td>
<td>1</td>
</tr>
<tr>
<td>Package weight(Lbs)</td>
<td>0.66000000000000003</td>
</tr>
<tr>
<td>Returnability</td>
<td>Y</td>
</tr>
<tr>
<td>Country of origin</td>
<td>FR</td>
</tr>
</tbody>
</table>

**Offer Sustainability**

<table>
<thead>
<tr>
<th>California proposition 65</th>
<th>WARNING: This product can expose you to chemicals including:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance 1</td>
<td>Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.</td>
</tr>
<tr>
<td>More information</td>
<td>For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a></td>
</tr>
</tbody>
</table>

**Contractual warranty**

<table>
<thead>
<tr>
<th>Warranty period</th>
<th>18 months</th>
</tr>
</thead>
</table>
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail

Screw Fixing (Retractable Lugs)

Position of Display
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply

1. A quick-blow fuse or circuit-breaker.
2. Fuse or circuit-breaker.
3. Inductive load.
4. Q9 and QA: 5 A (max. current in terminal C: 10 A).

Discrete Input Used for 3-Wire Sensors

1. A quick-blow fuse or circuit-breaker.
Connection of Smart Relays on DC Supply

Analog Inputs

1. A quick-blow fuse or circuit-breaker.
2. Ca: Analog sensor / Ta: Analog transmitter.
3. Recommended values: 2.2 kΩ / 0.5 W (10 kΩ max.)
4. Screened cables, maximum length 10 m / 32.80 feet.
5. Analog inputs according to Zelio Logic smart relay type (see table below)
6. 0-10 Vdc ANALOG

<table>
<thead>
<tr>
<th>Smart Relays</th>
<th>Analog Inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR2•12••D</td>
<td>IB...IE</td>
</tr>
<tr>
<td>SR2A201BD</td>
<td>IB and IC</td>
</tr>
<tr>
<td>SR2D201BD</td>
<td>IB and IC</td>
</tr>
<tr>
<td>SR2B20••D</td>
<td>IB...IG</td>
</tr>
<tr>
<td>SR2E201BD</td>
<td>IB...IG</td>
</tr>
<tr>
<td>SR3B10•BD</td>
<td>IB...IE</td>
</tr>
<tr>
<td>SR3B26••D</td>
<td>IB...IG</td>
</tr>
</tbody>
</table>
Connection of Smart Relays on DC Supply, with Discrete I/O Extension Modules

SR3B•••JD + SR3XT•••JD, SR3B•••BD + SR3XT•••BD

(1) 1 A quick-blow fuse or circuit-breaker.
(2) Ca: Analog sensor / Ta: Analog transmitter.
(3) Recommended values: 2.2 kΩ / 0.5 W (10 kΩ max.)
(4) Screened cables, maximum length 10 m / 32.80 feet.

NOTE: QF and QG : 5 A for SR3XT141••
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 ≤ 1 ms.

DC-13 (1)

X: Current (A)
Y: Millions of operating cycles
(1) DC-13: switching electromagnets, L/R ≤ 2 x (Ue x 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).