



Main

| | |
|---------------------------|-------------------------------|
| Range of product | Zelio Logic |
| Product or component type | Discrete I/O extension module |

Complementary

| | |
|--|--|
| Number or control scheme lines | 120 with ladder programming |
| Cycle time | 6...90 ms |
| Backup time | 10 years at 77 °F (25 °C) |
| Clock drift | 12 min/year at 32...131 °F (0...55 °C) |
| Checks | Program memory on each power up |
| [Us] rated supply voltage | 24 V DC |
| Supply voltage limits | 19.2...30 V |
| Reverse polarity protection | With |
| Discrete input number | 6 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 |
| Input compatibility | 3-wire proximity sensors PNP (discrete input) |
| Input impedance | 12 kOhm (IB...IG used as discrete input circuit) 7.4 kOhm (I1...IA and IH...IR discrete input circuit) |
| Number of outputs | 4 relay output(s) |
| Output voltage limits | 24...250 V AC (relay output) 5...30 V DC (relay output) |
| Contacts type and composition | NO relay output |
| Output thermal current | 8 A for all 4 outputs (relay output) |
| Electrical durability | 500000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1 |
| Switching capacity in mA | ≥ 10 mA at 12 V (relay output) |
| Operating rate in Hz | 0.1 Hz (at Ie) for relay output 10 Hz (no load) for relay output |
| Mechanical durability | 10000000 cycles (relay output) |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1 |
| Response time | 10 ms (from state 0 to state 1) relay output 5 ms (from state 1 to state 0) relay output |
| Connections - terminals | Screw terminals, flexible cable with cable end 1 x 0.25...1 x 2.5 mm ² / AWG 24...AWG |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|----------------------|---|
| | 14 AWG Screw terminals, flexible cable with cable end 2 x 0.25...2 x 0.75 mm ² / AWG 24...AWG 18 AWG Screw terminals, semi-solid cable 1 x 0.2...1 x 2.5 mm ² / AWG 25...AWG 14 AWG Screw terminals, solid cable 1 x 0.2...1 x 2.5 mm ² / AWG 25...AWG 14 AWG Screw terminals, solid cable 2 x 0.2...2 x 1.5 mm ² / AWG 24...AWG 16 AWG |
| Tightening torque | 4.42 lbf.in (0.5 N.m) |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Product weight | 0.44 lb(US) (0.2 kg) |

Environment

| | |
|---------------------------------------|---|
| 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 |
| 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 | -4...104 °F (-20...40 °C) in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -4...131 °F (-20...55 °C) conforming to 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) |
| altitude transport | <= 10000 ft (3048 m) |
| relative humidity | 95 % without condensation or dripping water |

Offer Sustainability

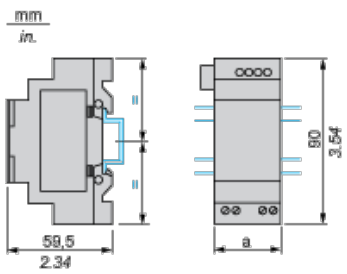
| | |
|--|--|
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which 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 | For more information go to www.p65warnings.ca.gov |

Contractual warranty

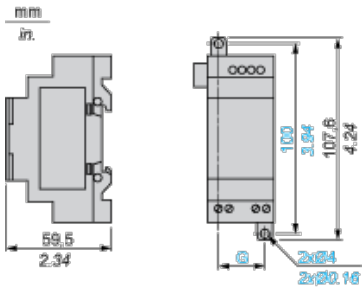
| | |
|-----------------|-----------|
| Warranty period | 18 months |
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I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



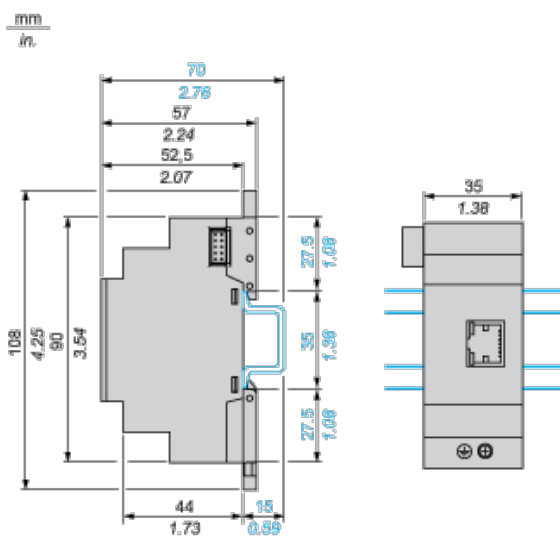
Screw Fixing (Retractable Lugs)



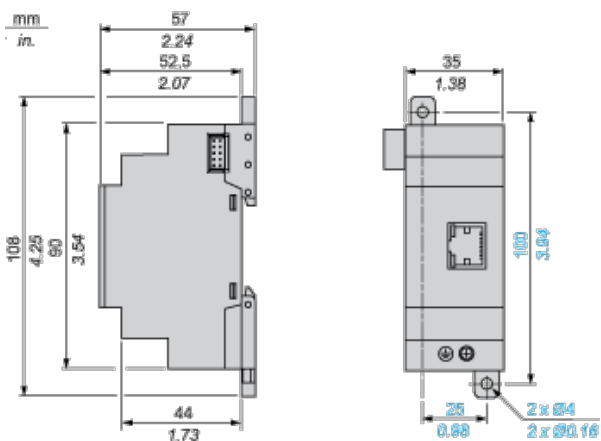
| SR3 | a (mm/in.) | G (mm/in.) |
|---------|------------|------------|
| XT61•• | 35 / 1.38 | 25 / 0.98 |
| XT101•• | 72 / 2.83 | 60 / 2.36 |
| XT141•• | 72 / 2.83 | 60 / 2.36 |

Communication Modules

Rail Mounting

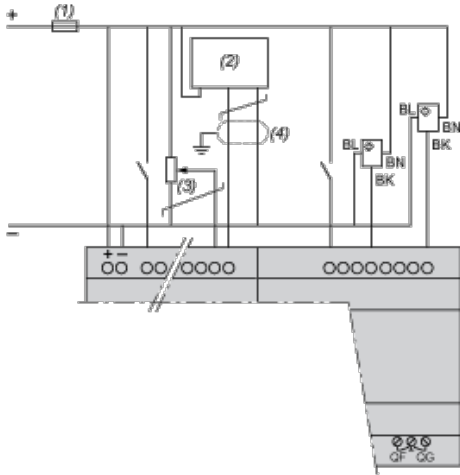


Screw Mounting (Retractable Lugs)



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 k Ω / 0.5 W (10 k Ω max.)
- (4) Screened cables, maximum length 10 m / 32.80 feet.

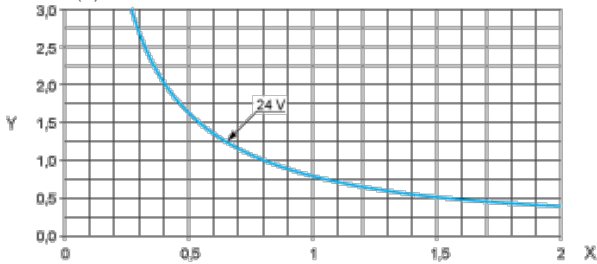
NOTE: QF and QG : 5 A for SR3XT141••

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)

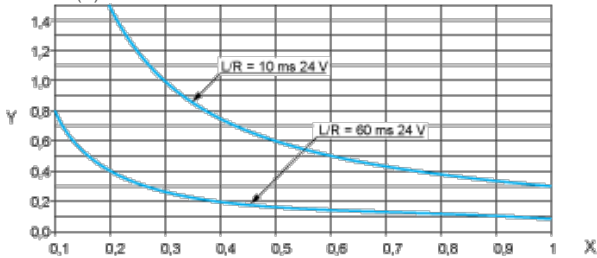


X: Current (A)

Y: Millions of operating cycles

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

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru