CIB – flush mounted relay outputs

Type	DI	DO	AI	AO	Comm
SA2-01B		1×	1×		CIB
SA2-02B		2×	1×		CIB

Basic features

- Switching actuators with one resp. two relay NO contacts (NO – normally open) to switch-on/off the load.
- Each relay output is independently addressable and controlled.
- Input for external temperature sensor.
- Status of Run/Error is indicated by the LED on the front panel.

Connecting

- The device is connected by two wires of CIB, which provide both the power supply and communication channel.
- The device is designed for mounting into the flush box.

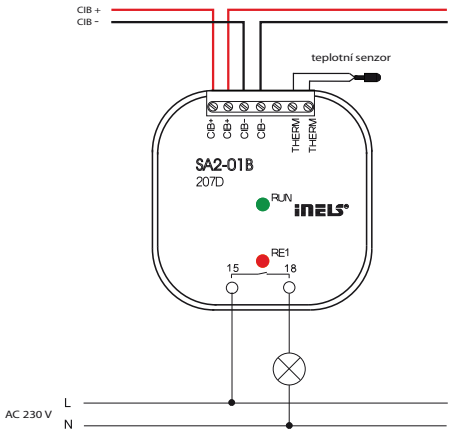
Use

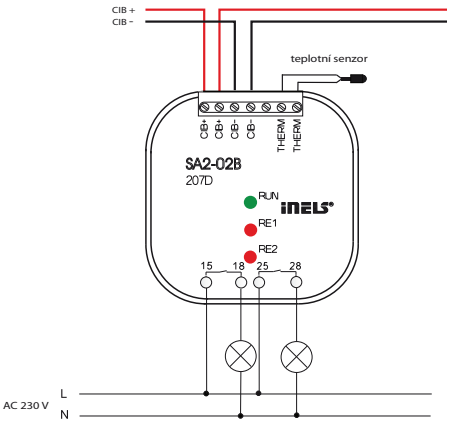
- The device is suitable where one or two contacts has to be controlled on the long distance with minimum wiring work.
- The care must be taken in the project and the max current and the protection of contacts for different type of loads bust be taken into account.

SA2-01B

SA2-02B

Connection example





Relay Outputs	SA2-01B	SA2-01B
No. of outputs	1× normally open contacts 16A/AC1	2× normally open contacts 8A/AC1
Galvanic isolation	Yes	yes
Switched voltage	min. 5 V DC; max. 250 V AC	min. 5 V DC; max. 250 V AC
Switched load	4000 VA/ AC1, 384 W/DC	2000 VA/ AC1, 192 W/DC
Peak current	30 A/ <3s	30 A/ <3s
Time of close/open the contact	typ. 10 ms/ 4 ms	typ. 10 ms/ 4 ms
Min. switched current	100 mA	100 mA
Switching frequency without load	max. 1200 min^{-1}	max. 1200 min^{-1}
Switching frequency with rated load	max. 6 min^{-1}	max. 6 min^{-1}
Mechanical lifetime at max load	30 mil. switchings	30 mil. switchings
Electrical lifetime at max load	70 000 switchings	70 000 switchings
Short-circuit protection	None	None
Spike suppressor of inductive load	External RC, varistor or diode snubber	External RC, varistor or diode snubber
Insulation voltage between relay outputs	1000 V AC	1000 V AC

Analog inputs	SA2-01B	SA2-02B
Input type	External temperature sensor NTC 12 k	External temperature sensor NTC 12 k
Measurement range	–20 ÷ 100 °C	–20 ÷ 100 °C
Accuracy	0.8 °C	0.8 °C

Power supply/ Communication	SA2-01B	SA2-02B
Power supply communication	24 V (27 V) from the bus CIB	24 V (27 V) from the bus CIB
On board local power supply	12 V DC for sensors	12 V DC for sensors
Current consumption	40 mA	60 mA

Operating conditions	
Operating temperature	–20 ÷ +55 °C
Storage temperature	–30 ÷ +70 °C
Electric strength	according EN 60950
IP Degree of protection IEC EN 60529	IP 30
Overvoltage category	III
Degree of pollution IEC EN 61131-2	2
Working position	Any
Installation	Flush mounted
Connections	screw terminals
Conductors cross-section	max. 2.5 mm^2
Relay output wires	2× (4×) wire 2.5 mm^2

Dimensions and weight

	SA2-01B	SA2-02B
Dimensions	49 × 49 × 21 mm	49 × 49 × 21 mm
Weight	43 g	63 g

Teco a.s. supplies units under the name INELS

Order number

SA2-01B	SA2-01B, CIB, 1 channel output – 1× relay contact NO 16A, indication of output status, contact $AgSnO_2$
SA2-01B/Ni	SA2-01B/Ni, CIB, 1 channel output – 1× relay contact NO 8A, indication of output status, contact AgNi
SA2-02B	SA2-02B, CIB, 2 channel output – 2× relay contact NO 16A, indication of output status, contact $AgSnO_2$
SA2-02B/Ni	SA2-02B/Ni, CIB, 2 channel output – 2× relay contact NO 8A, indication of output status, contact AgNi