

Type	DI	RO	AI	AO	Comm
C-OR-0202B	See AI	2	2 AI/DI		CIB

Basic features

- Module is an actuator with two independent relays 16 A with NO and NC contacts available.
- It is designed for switching of 2 independent power loads.
- Each relay is independently addressed and controlled.
- Module has 2 universal inputs for potential free contacts or resistive temperature sensors.
- Inputs can operate also as double balanced inputs for safety detectors. Inputs can be used to connect other resistive sensors up to 160 kΩ.
- Status of outputs and error/operation is indicated by LED on module.

- All relay contacts are led by isolated wires of 70 mm length.
- CIB bus and universal inputs are available on screw-type terminals.

Use

- Module is designed for switching independent power loads and other devices by relay contacts.
- With appropriate connections of contacts of both relays which avoid the simultaneous presence of voltage on both output contacts, module can be used to control drives of shutters, blinds.
- During designing the wiring, load and protection of each output has to be taken into account.



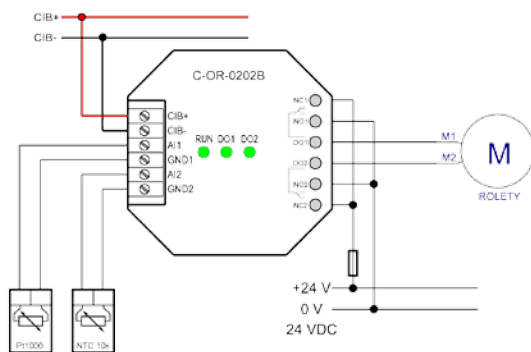
C-OR-0202B

Connections

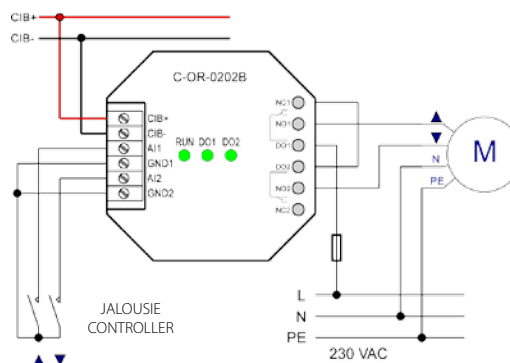
- Module is connected on two wire CIB bus, providing both communication and power supply of module.
- Module is designed for assembly into standard installation box in the wall or under device cover.

Connection example

Connection of DC motor and 2 temperature sensors



Connection of 230 V drives of shutters etc. and 2 push buttons.



Analog/combined inputs

Number of universal inputs	2 × AI/DI
Galvanic isolation	No

Sensor type	Sensor type	Basic accuracy
Potential-free contact	0/1	0 if >1,5 kΩ 1 if <0,5 kΩ
Balanced outputs	broken wire/0/1/ tamper	for 2 × 1k1 balancing resistance
Pt1000	-90 .. +320 °C	0,6°C
Ni1000	-60 .. +200 °C	0,6°C
NTC 12k	-40 .. +125 °C	0,6°C
KTY81-121	-55 .. +125 °C	0,6°C
Resistance	0 – 160 kΩ	

Operating conditions

Operating temperature	-10 .. +55 °C
Storage temperature	-25 .. +70 °C
Electric strength	according EN 60950
IP Degree of protection(IEC 529)	IP 20B
Overvoltage category	I
Degree of pollution IEC EN60664-1:2004	1
Working position	any
Installation	into installation box
Connection of CIB, AI/DI	screw terminals max. 1.5 mm ²
Relay outputs wire cross-section	6 × stranded wire H05 VK, 2.5 mm ²

Relay outputs

Number of outputs	2 × both NO, NC contacts 16 A/AC1
Galvanic isolation	Yes (even among outputs)
Switching voltage	min. 5 V DC; max. 300 V AC
Switching power	4000 VA/AC1, 384 W/DC
Switching current	max.16 A (NO), max.10 A (NC), min. 100 mA
Inrush current	80 A/<20 ms (NO contact)
Switch on/off time	typ. 15 ms/5 ms
Switching frequency without load	max. 1200 min ⁻¹
Frequency of switching with load	max. 6 min ⁻¹
Mechanical lifetime	3 × 10 ⁷
Electrical lifetime	0,7 × 10 ⁵
Short-circuit protection	No
Spike suppressor of inductive load	External (RC unit, varistor, diode)
Insulation voltage among each relay outputs	1000 V AC

Dimensions and weight

Dimensions	50 × 50 × 30 mm
Weight	70 g

Power supply

Power supply and communication	24 V (27 V) from CIB bus
Nominal load	50 mA (both relays closed)
Internal protection	Recovering fuse

Order number

TXN 133 02	C-OR-0202B; CIB relay module 2 × RO 230 V AC/16 A; 2 × AI/DI
------------	--