

CIB – DIN rail mounted 2-channel operating unit

Type	DI	DO	AI	AO	Comm
LBC2-02M	2 (buttons)	2		2	CIB

Basic features

- 2-channel operating unit is designated for dimming and switching dimmable lamp ballasts by analog output 1–10 V.
- Each channel 1–10 V is addressed and operated separately.
- It contains 2 relay outputs for switching ballast power supply. The relay switching is controlled depending on output voltage 1–10 V.
- Maximum output power is 16 A/ 4 kVA/ AC1 per contact.
- Both channels can be controlled by buttons in case that the unit is not connected to CIB.
- The channel status (switched on/off) and unit status (run/error) are indicated by LED.

Connection

- The unit is connected by two wires of CIB, which provide both the power supply and communication channel.
- For outputs connection see figure/scheme.

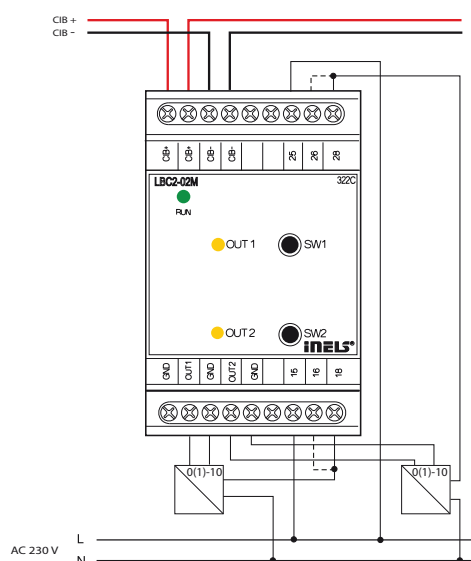
Usage

- Dimming and switching of dimmable tube/ lamp ballasts.
- It is used for creating of lighting scenes and transitions using fluent dimming and switching on.
- The unit seems to be an analog output for the CPU. The intensity of light and speed of building-up or slowing down.



LBC2-02M

Connection example



Binary input

Input type	2 × button on front panel
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Analog output

Range	2 × 1 ÷ 10 V
Output current	2 × 10 mA

Relay outputs

No. of outputs	2 × NO/NC contacts – 16 A/AC1
Operation	Depending on output 1–10 V
Galvanic isolation	Yes
Switched voltage	250 V AC1
Switched power	4000 VA/ AC1, 384 W/ DC
Short-term output overload	30 A/ <3s
Min. switched current	100 mA
Switching frequency without load	max. 1200 min ⁻¹
Switching frequency with rated load	max. 6 min ⁻¹
Mechanical/ Electrical lifetime at max. load	30 mil. /70 000 switchings
Insulation voltage between relay outputs	1000 V AC

Power supply

Power supply and communication	24 V (27 V) from CIB bus
Rated current	60 mA

Dimensions and weight

Dimensions	90 × 52 × 65 mm
Weight	129 g

Operating conditions

Operating temperature	–20 ÷ +55 °C
Storage temperature	–30 ÷ +70 °C
Electric strength	according EN 60950
IP Degree of protection	IP 20, IP40 in the covered cabinet
Overvoltage category	III
Degree of pollution	2
IEC EN 61131-2	
Working position	any
Installation	In the control panel on DIN rail
Connections	Screw terminals
Conductors cross-section	max. 2.5 mm ²

Teco a.s. supplies units under the name INELS

Order number

LBC2-02M	LBC2-02M, CIB, 2-channel unit for the operation of dimming lamp ballasts
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