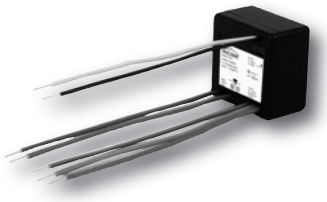
Output Modules for Rollerblind Motor

BDC-RO5A-230

- ***Up/down control of 1 rollerblind motor***
- ***Up/down interlocking for motor***
- ***AC power supply***
- ***Channel coding by BGP-COD-BAT***
- ***Design for mounting in euro box***



OUTPUT SPECIFICATIONS

Outputs		1 SPST relay & 1 SPDT relay
Resistive loads	AC 1	5 A/250 VAC (1250 VA)
	DC 1	0.25 A/250 VDC (62 W)
	or	
Inductive loads	AC 15	2.5 A/230 VAC
	DC 13	5 A/24 VDC
Mechanical lifetime		≥ 30 x 106 operations

Electrical lifetime (at max load)	AC 1	≥ 2.0 x 105 operations
Operating frequency		≤ 7200 operations/h
Insulation voltage		
Outputs - smart-house		≥ 4 kVAC (rms)
Response time		1 pulse train

GENERAL SPECIFICATIONS

Output OFF delay	
Upon loss of smart-house carrier	20 ms
Power ON delay	Typ. 2 s
Power OFF delay	≤ 1 s
Environment	
Pollution degree	3 (IEC 60664)
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)

Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
Dimensions (h x w x d)	50 x 50 x 30
Material	ABS
Weight	100 g

SUPPLY SPECIFICATIONS

Power supply AC types	Installations cat. III (IEC 60664)
Rated operational voltage through wire L & N	230 VAC ± 15% (IEC 60038)
Frequency	45 to 65 Hz
Drop-out tolerance	≤ 40 ms
Power consumption	Typ. 3.3 VA
Power dissipation	≤ 2 W
Transient protection volt.	4 kV

Insulation voltage	
Supply - smart-house	≥ 4 kVAC (rms)
Supply - Outputs	≥ 4 kVAC (rms)
smart-house - Outputs	≥ 4 kVAC (rms)
Consumption on smart-house	
Normal consumption	≤ 0.5 mA
Consumption 1 relay on	≤ 1.8 mA
Consumption 2 relay on	≤ 3.2 mA

MODE OF OPERATION

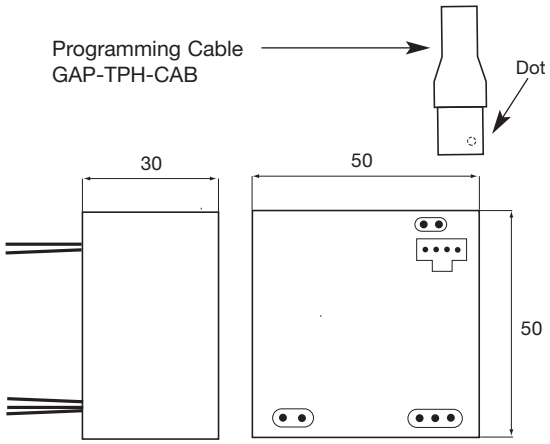
As indicated on the wiring diagram, there are two relays in series to control the motor. O1 is used to switch the Motor ON/OFF and O2 is used to control the direction of the Motor UP/DOWN. In this way, it is made sure that the motors are not controlled UP and DOWN at the same time (interlocking). O1 and O2 may be coded individually by means of the code programmer BGP-COD-BAT. The default setting of the module is to switch all outputs off in case of loss of smart-house carrier signal.

The smart-house controller provides intelligent functions that makes it easy for the user to control the rollerblind motors individually or several at the same time (all UP or all DOWN).

TYPE SELECTION

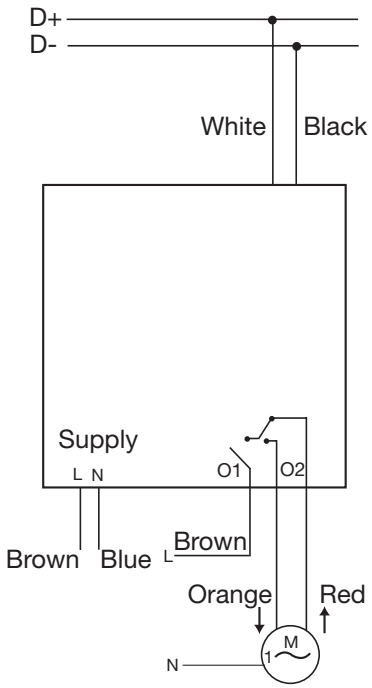
Supply	***Ordering no.***
230 VAC	BDC-RO5A-230

DIMENSIONS (mm)



Output Modules for Rollerblind Motor

WIRING DIAGRAM



Wiring Connections

Bus:	White =	smart-house signal, D+
	Black =	smart-house signal, D-
Supply:	Brown =	L
	Blue =	N
Output:	Brown =	O1, Motor on/off
	Orange =	O2, Motor up/down
	Red =	O2, Motor up/down

Bus wires:	2 x 0,75 mm2 250V isolation, single core, 150 mm
Supply, Output:	5 x 1,5 mm2 250V isolation, single core, 150 mm

ACCESSORIES

Programming cable to BGP-COD-BAT	GAP-TPH-CAB