Output Modules for Rollerblind Motors

BH4-RO5A2-230

- **Up/down control of 2 rollerblind motors**
- **Up/down interlocking for each motor**
- **LED-indications for supply smart-house carrier and motor up/down**
- **For mounting on DIN-rail (EN 50022)**
- **Design for mounting in euro box**
- **AC or DC power supply**
- **Channel coding by BGP-COD-BAT**

OUTPUT SPECIFICATIONS

Outputs		2 SPST x 2 SPDT relays
Isolated in groups of		2 x 2
Contact ratings (AgCdO)		µ (micro gap)
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 10^6 operations
Electrical lifetime (at max load)	AC 1	≥ 2.0 x 10^5 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
Indication for	
Supply ON	LED, green
Output ON	4 LEDs, red (one per motor or direction)
smart-house carrier	LED, yellow
Environment	
Degree of protection	IP 20 B
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)
Material	H4-housing
Weight	300 g

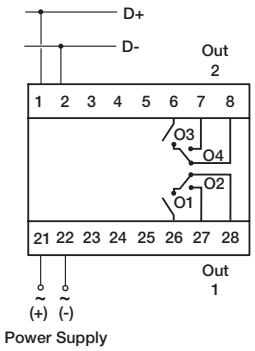
SUPPLY SPECIFICATIONS

Power supply AC types	Installations cat. III (IEC 60664)
Rated operational voltage	
through term. 21 & 22	230 VAC ± 15% (IEC 60038)
Frequency	45 to 65 Hz
Drop-out tolerance	≤ 40 ms
Power consumption	Typ. 3.5 VA
Power dissipation	≤ 9 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)

TYPE SELECTION

Supply	***Ordering no.***
230 VAC	BH4-RO5A-230

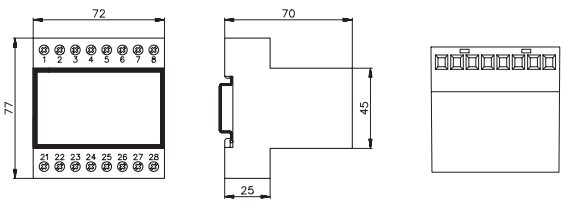
WIRING DIAGRAM



MODE OF OPERATION

As indicated on the wiring diagram, there are two relays in series to control each motor. O1 is used to switch Motor 1 ON/OFF and O2 is used to control the direction of Motor 1 UP/DOWN. Correspondingly O3 (ON/OFF) and O4 (UP/DOWN) are used to control Motor 2. In this way, it is made sure that the motors are not controlled UP and DOWN at the same time (interlocking). O1, O2, O3 and O4 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).

DIMENSIONS (mm)



ACCESSORIES

DIN-rail	FMD 411

Output Modules for Rollerblind Motor

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 mm^2 250V isolation, single core, 150 mm
Supply, Output:	5 x 1,5 mm^2 250V isolation, single core, 150 mm