### **Output Modules for Rollerblind Motors**

# smart-house

## 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 power supply

Channel coding by BGP-COD-BAT



OUTPUT SPECIFICATIONS						
<i>Outputs</i> Isolated in groups of Contact ratings (AgCdO) Resistive loads	AC 1	2 SPST x 2 SPDT relays 2 x 2 μ (micro gap) 5 A/250 VAC (1250 VA)	Mechanical lifetime Electrical lifetime (at max load) Operating frequency	AC 1	$\geq 30 \times 10^6$ operations $\geq 2.0 \times 10^5$ operations $\leq 7200$ operations/h	
Inductive loads	DC 1 or	0.25 A/250 VDC (62 W)	Insulation voltage Outputs - smart-house		$\geq$ 4 kVAC (rms)	
	AC 15 DC 13	2.5 A/230 VAC 5 A/24 VDC	Response time		1 pulse train	

#### JENEKAL SPEC

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	

Response time	1 pulse train
IFICATIONS	
Pollution degree Operating temperature Storage temperature	3 (IEC 60664) -20° to +50°C (-4° to +122°F) -50° to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock Vibration	15 G (11 ms) 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	$\leq 9 W$
Transient protection volt.	4 kV
Insulation voltage	
Supply - smart-house	$\geq$ 4 kVAC (rms)
Supply - Outputs	$\geq$ 4 kVAC (rms)
smart-house - Outputs	$\geq$ 4 kVAC (rms)

#### MODE OF OPERATION

ACCESSORIES

FMD 411

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 The smart-house controller pro-(UP/DOWN) are used to control Motor 2. In this way, it is made sure that the motors are not controlled (interlocking). O1, O2, O3 and O4 or all DOWN).

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 smarthouse carrier signal.

vides intelligent functions that makes it easy for the user to control the rollerblind motors individually UP and DOWN at the same time or several at the same time (all UP

#### **TYPE SELECTION** Supply Ordering no. 230 VAC BH4-RO5A-230 WIRING DIAGRAM





DIN-rail

BH4-RO5A2-230

## **Output Modules for Rollerblind Motor**



Bus: White = smart-hou	use signal, D+		
Black = smart-hou	use signal, D-		
Supply: Brown = L Blue = N	, ,		
Output: Brown = O1, Moto Orange = O2, Moto Red = O2, Moto	or on/off or up/down or up/down		
Bus wires: 2 x 0,75 mm <sup>2</sup> 250V isolation, single core, 1 Supply, Output: 5 x 1.5 mm <sup>2</sup>	2 x 0,75 mm <sup>2</sup> 250V isolation, single core, 150 mm 5 x 1,5 mm <sup>2</sup> 250V isolation, single core, 150 mm		
250V isolation, single core, 1			