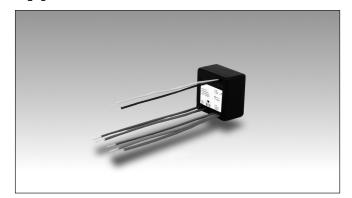
smart-house Control for AC Rollerblind Motor Type SHDRODC230





- Up/down control of 1 rollerblind motor
- Up/down interlocking for motor
- AC power supply
- Design for mounting in eurobox
- Relay load 5A

Product Description

The SHDRODC230 is a decentral module to control one AC rollerblind motor. It has been developed to be connected to and controlled by the smart-house system controllers. The rollerblind motor is driven by two relays in series: one to switch

the motor ON/OFF and the second one to control the direction UP/DOWN. These two relays are controlled in such a way as to respect the motor timing before any reversing of the motor direction.

Ordering Key	SH	D	RO	DC	230
smart-house		T			
Decentral module ———					
Rollerblind					
Motor —					
Power supply ———					

Type Selection

Supply	Mounting	Relay load	Ordering number
230 VAC	Eurobox	5A	SHDRODC230

Output Specifications

Outputs		1 SPST relay & 1 SPDT relay
Resistive loads	AC 1 DC 1	5 A/250 VAC (1250 VA) 0.25 A/250 VDC (62 W)
Inductive loads	AC 15	2.5 A/230 VAC
madonio loddo	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 - Dupline®		≥ 4 kVAC (rms)

Supply Specifications

Power supply AC type	Overvoltage cat. III (IEC 60664)
Rated operational voltage through wires 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 voltage	4 kV
Insulation voltage	
Supply - Dupline®	≥ 4 kVAC (rms)
Supply - Outputs	≥ 4 kVAC (rms)
Dupline® - Outputs	≥ 4 kVAC (rms)

Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	2 mA



General Specifications

Output OFF delay		EMC	
Upon loss of Dupline® bus	20 ms	Immunity	EN 61000-6-2
Power ON delay	Typ. 2 s	- Electrostatic discharge	EN 61000-4-2
Power OFF delay	≤ 1 s	Radiated radiofrequencyBurst immunity	EN 61000-4-3 EN 61000-4-4
Address assignments /		- Surge	EN 61000-4-5
channel programming	The address assignment	- Conducted radio frequency	
	is automatic: the control- ler recognises the module	 Power frequency magnetic fields 	EN 61000-4-8
	through the SIN (Specific Identification Number) that	 Voltage dips, variations, 	EN 61000-4-11
	has to be inserted in the SH	Emission	EN 61000-6-3
	tool.	 Conducted and radiated 	CISPR 22 (EN55022), cl. B
Environment		emissions	
Pollution degree	3 (IEC 60664)	- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
Operating temperature	-20° to +50°C (-4° to+122°F)	- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
Storage temperature	-50° to +85°C (-58° to +185°F)		
Humidity (non-condensing)	20 to 80% HR		
Housing			
Dimensions (h x w x d)	50 x 50 x 30		
Material `	ABS		
Weight	100 g		
CE Marking	Yes		

Mode of Operation

This rollerblind module is driven by the smart-house controller to move rollerblinds, sunblinds and shutters. It receives the UP and DOWN command from the smart-house, and then activates the relevant output accordingly. The two outputs are driven independently and can be managed by different rollerblind functions.

UP/DOWN The output remains active for a time known as "running time" or until another UP/DOWN command received. is Before reversing the movement, the output will remain deactivated for a time called "reverse delay". The reverse delay time is sent to the SHDRODC230 by the smarthouse. The running time is managed by the controller. If the tilting function is ena-

SHDRODC230 bled, the will be enabled to manage the tilting command received from the smarthouse. The tilting command can be of two types: tilting UP and tilting DOWN. Once this command is received, the SHDRODC-230 will activate the UP or DOWN output for the tilting time always respecting the reverse delay

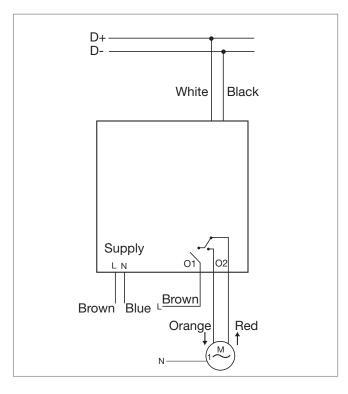
Addressing

No addressing is needed since the module is provided with a specific identification number $\dot{\text{(SIN)}}$: the user has only to insert the SIN number in the configuration tool when creating the system configuration.

Number of Rollerblind functions	Emergency stop signal used (Y/N)	Input channels	Output channels
1	N	1	0
1	Υ	1	1



Wiring Diagrams



Wiring Connections

Bus	White =	smart-house signal, D+
	Black =	smart-house signal, D-
Supply	Brown =	T TOUSE SIGNAL, D
Supply		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 m	
		lation, single core, 150 mm
Complete authorities a	5 x 1.5 mr	, ,
Supply, output wires		
	250V insu	lation, single core, 150 mm

Dimensions

