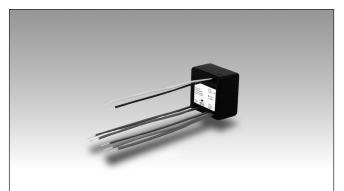
# Smart Dupline® Control for AC Rollerblind Motor Type SHDRODC230





- 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

Decentral module

Rollerblind

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 DC 13	2.5 A/230 VAC 5 A/24 VDC
Mechanical lifetime		≥ 30 x 10 <sup>6</sup> operations
Electrical lifetime		
(at max load)	AC 1	≥ 2.0 x 10 <sup>5</sup> operations
<b>Operating frequency</b>		≤ 7200 operations/h
Insulation voltage Outputs - Dupline®		≥ 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

### **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® Supply - Outputs Dupline® - Outputs	≥ 4 kVAC (rms) ≥ 4 kVAC (rms) ≥ 4 kVAC (rms)	



#### **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	<ul> <li>Radiated radiofrequency</li> <li>Burst immunity</li> </ul>	EN 61000-4-3 EN 61000-4-4
Address assignments / channel programming	The address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the Sx tool.	<ul> <li>Surge</li> <li>Conducted radio frequency</li> <li>Power frequency magnetic fields</li> <li>Voltage dips, variations, interruptions</li> </ul>	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11 EN 61000-6-3 CISPR 22 (EN55022), cl. B
Environment Pollution degree Operating temperature Storage temperature Humidity (non-condensing)	3 (IEC 60664) -20° to +50°C (-4° to+122°F) -50° to +85°C (-58° to +185°F) 20 to 80% HR	emissions - Conducted emissions 1)	CISPR 16-2-1 (EN55016-2- CISPR 16-2-3 (EN55016-2-
Housing Dimensions (h x w x d) Material Weight	50 x 50 x 30 ABS 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.

The UP/DOWN output remains active for a time

"running time" known as 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 enabled, the SHDRODC230 will be enabled to manage the

tilting command received from the smart-house. 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 time.

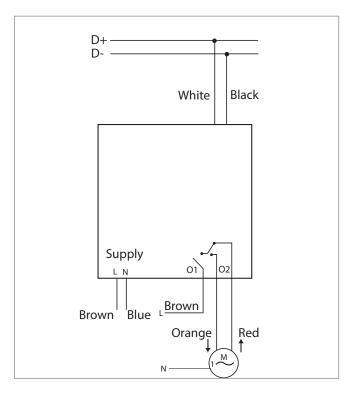
#### Addressing

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

Used channel: 1 output channel.



## **Wiring Diagrams**



## **Wiring Connections**

Bus	White = Black =	smart-house signal, D+ smart-house signal, D-
Supply	Brown = Blue =	L N
Output	Brown = Orange =	O1, Motor on/off O2, Motor up/down
	Red =	O2, Motor up/down
Bus wires	2 x 0.75 mm <sup>2</sup> 250V insulation, single core, 150 mm	
Supply, output wires	5 x 1.5 mn 250V insu	n2 lation, single core, 150 mm

#### **Dimensions**

