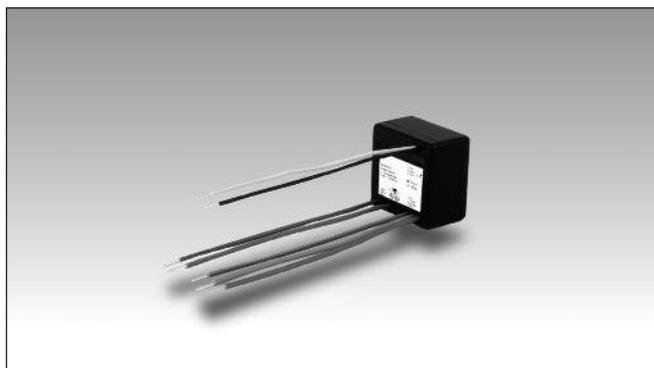


Smart Dupline® Control for AC Rollerblind Motor Type SHDRODC230

CARLO GAVAZZI



- 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 _____
 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	5 A/250 VAC (1250 VA)
	DC 1	0.25 A/250 VDC (62 W)
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 - 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®	≥ 4 kVAC (rms)
Supply - Outputs	≥ 4 kVAC (rms)
Dupline® - Outputs	≥ 4 kVAC (rms)

General Specifications

Output OFF delay Upon loss of Dupline® bus	20 ms
Power ON delay	Typ. 2 s
Power OFF delay	≤ 1 s
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 SH tool.
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
Housing Dimensions (h x w x d) Material	50 x 50 x 30 ABS
Weight	100 g

CE Marking	Yes
EMC Immunity - Electrostatic discharge - Radiated radiofrequency - Burst immunity - Surge - Conducted radio frequency - Power frequency magnetic fields - Voltage dips, variations, interruptions Emission - Conducted and radiated emissions - Conducted emissions - Radiated emissions	EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 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 CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)

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.

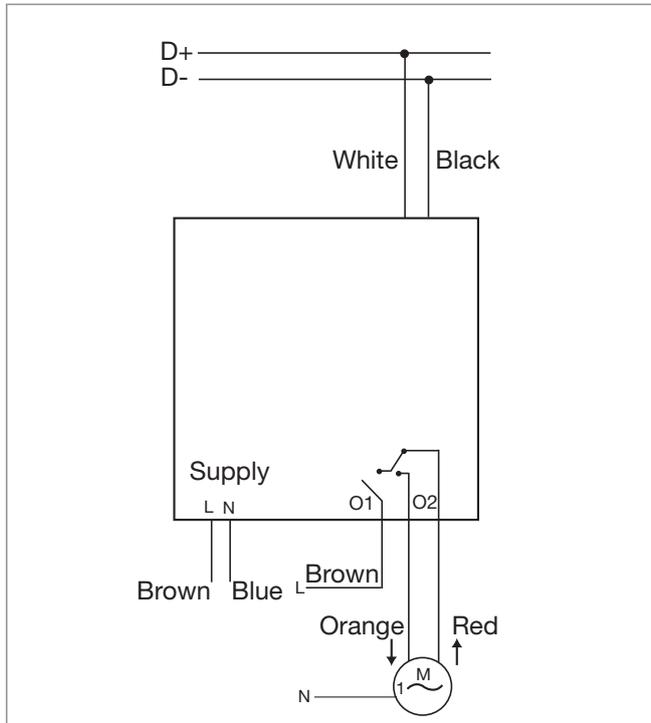
The UP/DOWN output remains active for a time known as "running time" or until another UP/DOWN command is received. Before reversing the movement, the output will remain deactivated for a time called "reverse delay". The reverse delay time is sent to the SHDRODC230 by the smart-house. The running time 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 SHDRODC230 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 = 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 insulation, single core, 150 mm
Supply, output wires	5 x 1.5 mm ² 250V insulation, single core, 150 mm

Dimensions

