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Output Module for Rollerblind Motors
Type G 3430 4249

- **Up/down control of 2 rollerblind motors**
- **Up/down interlocking for each motor**
- **H4-housing**
- **For mounting on DIN-rail (EN 50022)**
- **LED-indications for supply Dupline® carrier and motor up/down**
- **AC power supply**
- **Channel coding by GAP 1605**

Product Description

Dupline® output module for up/down control of two rollerblind motors. A built-in up/down interlocking function protects the motors. Each motor requires two Dupline® channels, one for "UP" and one for "DOWN". There is a LED indication for "UP" and "DOWN" for each motor. For intelligent control of the rollerblind motors it is recommended to use the Master Generator G38900014230, which has this function built in.

Ordering Key

G 3430 4249 024

- **Type: Dupline®**
- **H4-housing**
- **Receiver**
- **No. of channels**
- **Output type**
- **Power supply**

Type Selection

Supply	**Ordering no. 4 channel 5 A/250 VAC**
24 VAC	**G 3430 4249 024**
115 VAC	**G 3430 4249 115**
230 VAC	**G 3430 4249 230**
15 to 30 VDC	**G 3430 4249 824**

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 - Dupline®		≥ 4 kVAC (rms)
Response time		1 pulse train

Supply Specifications

Power supply AC types		Installations cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	230	230 VAC ± 15% (IEC 60038)
	115	115 VAC ± 15% (IEC 60038)
	024	24 VAC ± 15%
Frequency		45 to 65 Hz
Drop-out tolerance		≤ 40 ms
Power consumption		Typ. 3.5 VA
Power dissipation		≤ 9 W
Transient protection volt.	230	4 kV
	115	2.5 kV
	024	800 V
Insulation voltage		
Supply - Dupline®		≥ 4 kVAC (rms)
Supply - Outputs		≥ 4 kVAC (rms)
Dupline® - Outputs		≥ 4 kVAC (rms)
Power supply DC types		Installation cat. III (IEC 60664)
Operational voltage through term. 21 & 22	824	15 to 30 VDC (ripple included)
Ripple		≤ 3 V
Reverse-polarity protection		Yes
Current consumption		≤ 100 mA
Inrush current		≤ 1 A
Transient protection volt.		800 V
Insulation voltage		
Supply - Dupline®		≥ 200 VAC (rms)
Supply - Outputs		≥ 4 kVAC (rms)
Dupline® - Outputs		≥ 4 kVAC (rms)

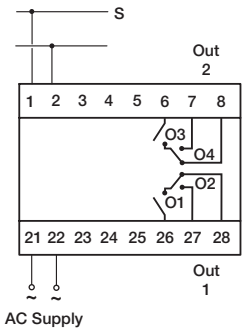
General Specifications

Output OFF delay	
Upon loss of Dupline® 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)
Dupline® 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)
Dimensions	
Material	
(see Technical informations)	H4-housing
Weight	300 g

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 GAP 1605. The default setting of the module is to switch all outputs off in case of loss of Dupline® carrier signal.
The Master Generator G38900014 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).

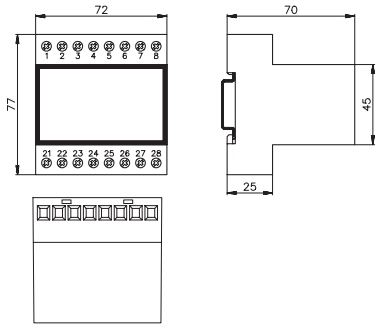
Wiring Diagram



S: Signal wire

Dimensions (mm)

H4-housing



Accessories

DIN-rail	FMD 411

For further information, see "Accessories".

Specifications are subject to change without notice (28.07.2009)
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Product	Code	Reference	Product link
Selected parameters MODULE TYPE Output module HOUSING DIN-rail POWER SUPPLY AC I/O TYPE Relay output NUMBER OF I/O 2 Others MODULE TYPE Output module HOUSING H4 (W72) I/O TYPE 5A SPST relay POWER SUPPLY 230 VAC MAIN CHARACTERISTICS Output module for two roller blind motors with built-in interlock function	G34304249230		Buy on EAN