

# Output Module Type G 3430 4445

CARLO GAVAZZI



- 4-channel receiver
- Relay load: 16 A
- Module load: 64 A (16 A per relay)
- Galvanically separated SPST relay outputs
- H4-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply, Dupline® carrier and outputs
- AC power supply
- Address coding by GAP 1605
- The relay outputs can be connected to different phases

## Product Description

Dupline receiver® designed to be a part of the Dupline® concept for Building Automation. SPST relay outputs for control of 4 loads of up to 250 VAC/16 A.

## Ordering Key

**G 3430 4445 024**

Type: Dupline®  
H4-housing  
Receiver  
Number of channels  
Output type  
Power supply

## Type Selection

Supply	Ordering no.
24 VAC	<b>G3430 4445 024</b>
115 VAC	<b>G3430 4445 115</b>
230 VAC	<b>G3430 4445 230</b>

## Supply Specifications (cont.)

Power supply (cont.)	
Rated impulse withstand volt.	
230	4 kV
115	2,5 kV
024	800 V
Dielectric voltage	
Supply – Dupline®	≥4 kVAC (rms)
Supply – Outputs	≥2 kVAC (rms)

## Output Specifications

Outputs	
Contact ratings (AgSnO2)	4 SPST relays
Resistive loads	μ (micro gap)
Mechanical lifetime	16 A / 250 VAC
Electrical lifetime	5x10 <sup>6</sup> operations
Minimum load	1x10 <sup>5</sup> operations/250 V, 12 A
Operating frequency	100 mA/12 V
Dielectric voltage	60 operations/min.
Outputs – Dupline®	≥ 4 kVAC (rms)
Output – Output	> 4 kVAC (rms)
Response time	≤ 1 pulse train

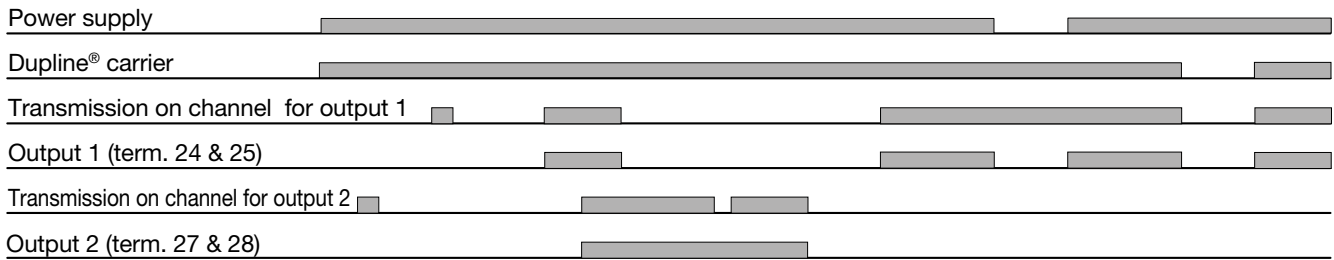
## Supply Specifications

Power Supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage	230 VAC, +/- 10% (IEC 60038)
Through term. 21 & 22	115 VAC, +/- 10% (IEC 60038)
Frequency	24 VAC, +/- 10%
Rated operational power	45 to 65 Hz
Max. power dissipation	Typ. 2,5 VA
	7 W

## General Specifications

Fail polarity state delay	
Upon loss of Dupline® carrier	≤ 20 ms
Power ON delay	typ. 2s
Indication for:	
Supply ON	LED, Green
Dupline® carrier	LED, Yellow
Output ON	LED, red (one per output)
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-5 to +50°C (+23° to +122°F)
Storage temperature	-40 to +85°C (-40° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock	5 G (11ms)
Vibration	2 G (6 to 55Hz)
Housing	H4-housing
Weight	400 g

## Operation Diagram



## Mode of Operation

4-channel receiver with 4 normally open contact outputs. Each output is individually coded by means of the code programmer GAP 1605. For changing the default setting, please refer to the data-sheet on GAP 1605.

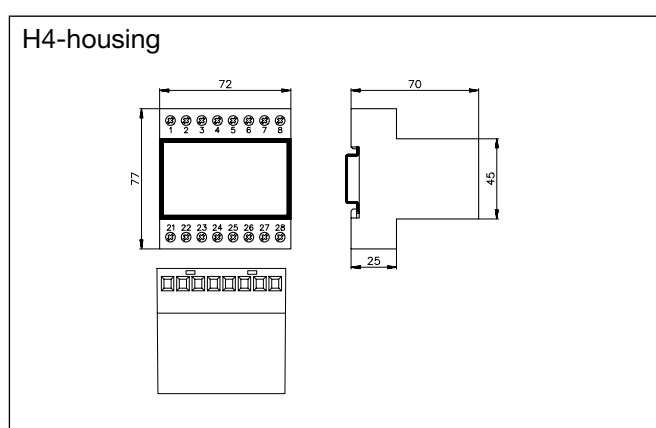
The outputs are normally OFF. When a transmitter coded to the selected channel is activated, the output turns ON and remains ON until the respective channel becomes deactivated. The

default setting is such that upon loss of Dupline® carrier all the outputs go OFF.

**Note:** At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and Dupline and transmit on channels A1-4 once.

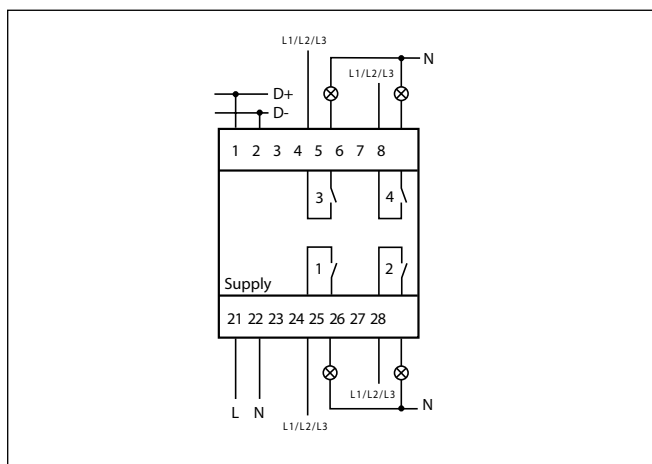
**Note:** Due to the construction with bistable relays, the module is intended for heating and light control only.

## Dimensions (mm)



## Wiring Diagram

4 channels G 3430 4445 ...  
SPST relay output



Default setting (fail polarity): OFF

## Accessories

DIN-rail

FMD 411

## Output Specifications, Relay Data

Load	Test conditions	Typical number of operations
250 V, 12 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	$1.0 \times 10^5$
250 V, 8 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	$3.5 \times 10^5$
250 V, 4 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	$5.0 \times 10^5$
250 V, 3 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	$7.5 \times 10^5$
230 V, 550 W filament lamps $I_{in} \leq 40 A_{peak}$ $I_{off} = 2.5 A$	60/h, 8% DC, +22°C	$2.0 \times 10^5$
230 V, 1000 W filament lamps $I_{in} \leq 71.5 A_{peak}$ $I_{off} = 4.5 A$	60/h, 8% DC, +25°C	$7.0 \times 10^4$
230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 $\mu F$	360/h, 50% DC, +25°C	$1.0 \times 10^4$
230 V, compressor $I_{in} \leq 21 A_{peak}$ $I_{off} = 3.5 A$ $\cos \varphi = 0.5$	500/h, 20% DC, +25°C	$1.7 \times 10^5$
250 V, 8 A, $\cos \varphi = 0.3$	360/h, 50% DC, +25°C	$1.0 \times 10^5$