

Output Module 4 x 20 Amp Type G3830 4445



- 4-channel receiver
- Relay load: 20 A
- Module load: 80 A (20 A per relay)
- Galvanically separated SPST relay outputs
- H8-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply, Dupline® carrier and outputs
- AC power supply
- Address coding by GAP 1605
- Manual override of the channels on the front of the module

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/20 A.

Ordering Key

G3830 4445 230

Type: Dupline®
H8-housing
Receiver
No. of channels
Output type
Power supply

Type Selection

Supply	Ordering no.
230 VAC	G3830 4445 230

Output Specifications

Outputs	4 SPST relays
Contact ratings (AgSnO ₂)	μ (micro gap)
Resistive loads AC1	20 A
In-rush current	120 A (20 msec.)
Max. switching voltage	440 VAC
Max. switching power	10 kVA
Capacitive load	≤ 200 μF
Lamp load	≤ 4800 W
Switching operations	≥ 60000 operations
Minimum load	100 mA/12 V
Max. Switching Frequency	2 Hz
Response time	≤ 1 pulse train

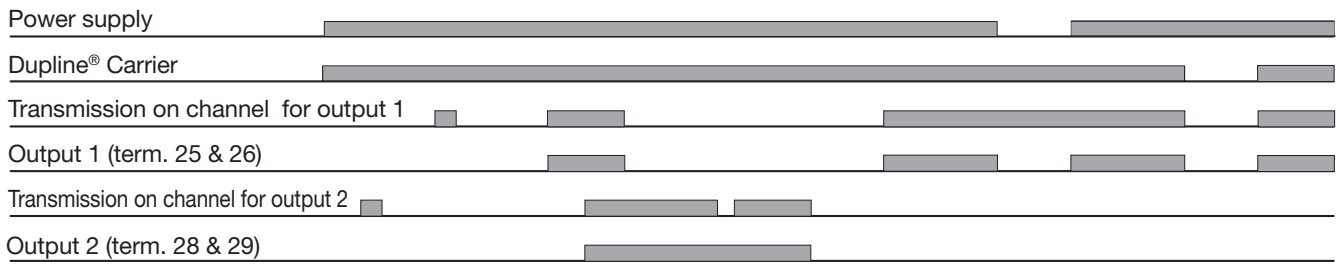
General Specifications

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	-50 to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock	5 G (11ms)
Vibration	2 G (6 to 55Hz)
Housing	H8-housing
Weight	500 g

Supply Specifications

Power Supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage Through term. 21 & 22	230 VAC, +/- 10% (IEC 60038)
Frequency	45 to 65 Hz
Rated operational power	Typ. 2,5 VA
Max. power dissipation	7 W
Rated impulse withstand volt. 230	4 kV
Dielectric voltage Supply – Dupline®	≥4 kVAC (rms)
Supply – Outputs	≥4 kVAC (rms)
Dielectric voltage Outputs – Dupline®	≥ 4 kVAC (rms)

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 datasheet on GAP 1605.

LED's will not follow manual override. The manual override will be reset if Dupline or power is put off and on in min. 10 sec. Each relay is labeled so it is possible to see the relays actual status.

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. If fail polarity is set to 1, the relays will go on upon loss of carrier.

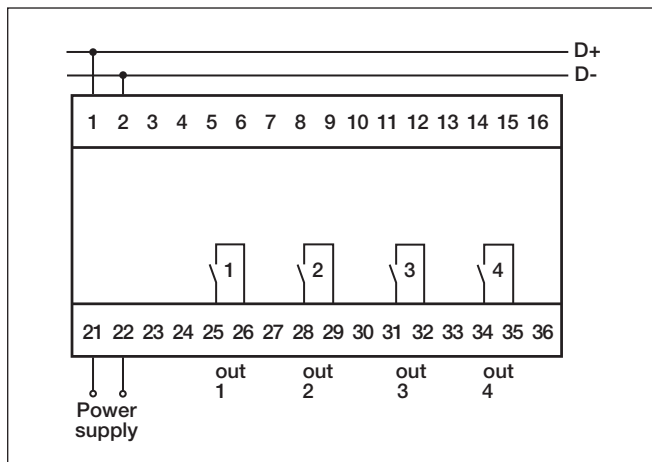
Note: At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and Dupline and transmit on channels A1-4 once.

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

On the front of the module, it is possible mechanical to override each relay. The

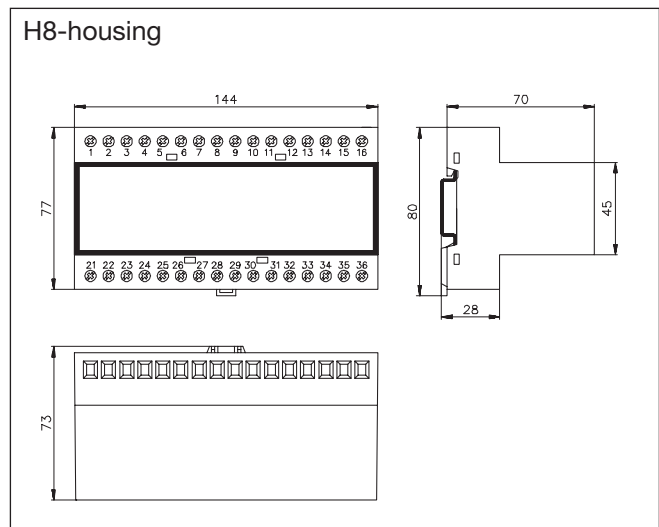
Wiring Diagram

4 channels G3830 4445
SPST relay output



Default setting (fail polarity = 0): OFF

Dimensions (mm)



Accessories

DIN-rail FMD 411

For further information, see "Accessories".