

Dupline® Field- and Installationbus Receiver for Digital Signals Type G 3830 5543



- 8-channel receiver
- Galvanically separated SPST relay outputs
- Load: 8 x 5 A/250 VAC
- H8-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply, Dupline carrier and outputs
- AC power supply
- Channel coding by GAP 1605

Product Description

Dupline receiver. VAC/5 A.
SPST relay outputs for control of 8 loads of up to 250

Ordering Key **G 3830 5543 024**

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

Type Selection

Supply

24 VAC
115 VAC
230 VAC

Ordering no.
8 channels
5 A/250 VAC

G 3830 5543 024
G 3830 5543 115
G 3830 5543 230

Supply Specifications

| | |
|---|--------------------------------|
| Power supply | Overvoltage cat. III (IEC 664) |
| Rated operational voltage through term. 21 & 22 | 230 VAC, ±15% (IEC 38) |
| 115 | 115 VAC, ±15% (IEC 38) |
| 024 | 24 VAC, ±15% |
| Frequency | 45 to 65 Hz |
| Voltage interruption | ≤ 40 ms |
| Rated operational power | Typ. 7.0 VA |
| Rated impulse withstand voltage | 230 4 kV |
| | 115 2.5 kV |
| | 024 800 V |
| Dielectric voltage | |
| Supply - Dupline | ≥ 4 kVAC (rms) |
| Supply - Outputs | ≥ 4 kVAC (rms) |

Output Specifications

| | |
|------------------------------------|---|
| Outputs | 8, SPST relays |
| Isolated in groups of | 8 x 1 |
| 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 5 A/25 VDC (125 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 |
| Dielectric voltage | |
| Outputs - Dupline | ≥ 4 kVAC (rms) |
| Response time | 1 pulse train |



General Specifications

| | |
|---|------------------------------|
| Output OFF delay upon loss of Dupline carrier | ≤ 20 ms |
| Power ON delay | Typ. 2 s |
| 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 664) |
| 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 information) | H8-housing |
| Weight | 800 g |

Mode of Operation

8-channel receiver with 8 normally open contact outputs. Each output may be coded individually by means of the code programmer GAP 1605. For details, please refer to the respective data sheet.

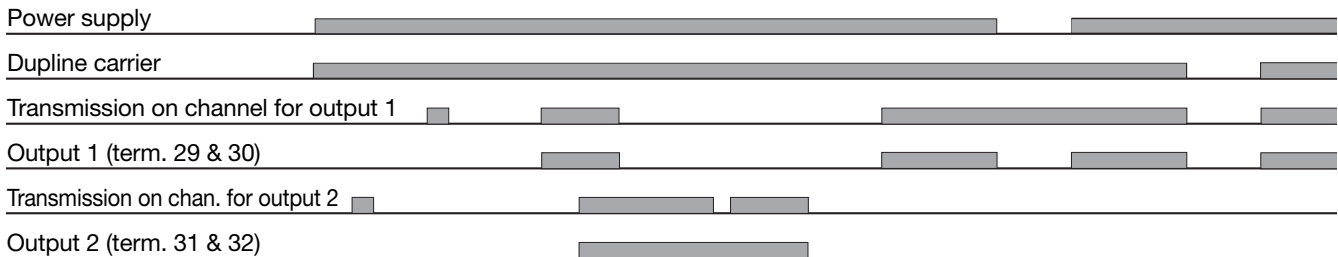
The outputs are normally off. When a transmitter coded to the selected channel is activated, the output turns on and remains on until the respective channel becomes deactivated.

The default setting of the module is such that upon loss of Dupline carrier **all** the outputs go off.

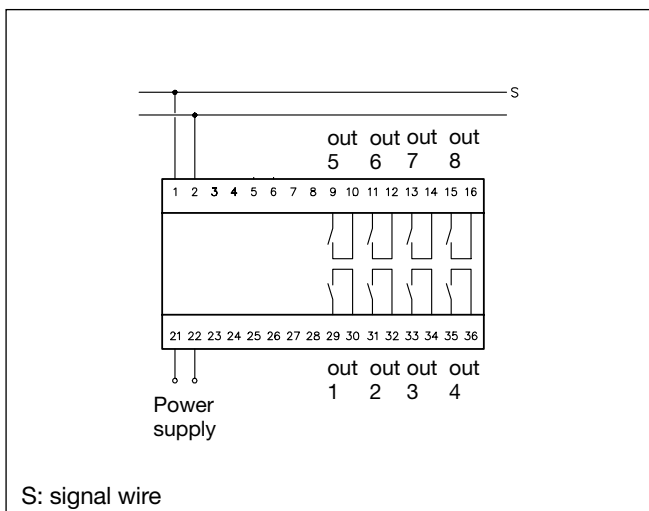
Output connections

Output 1: terminals 29 & 30
 Output 2: terminals 31 & 32
 Output 3: terminals 33 & 34
 Output 4: terminals 35 & 36
 Output 5: terminals 9 & 10
 Output 6: terminals 11 & 12
 Output 7: terminals 13 & 14
 Output 8: terminals 15 & 16

Operation Diagram



Wiring Diagram



Accessories

DIN-rail FMD 411

For further information see "Accessories".