Receiver for Digital Signals
Type G 3830 5543

Dupline® Fieldbus Installationbus

- **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 or DC power supply**
- **Channel coding by GAP 1605**

Product Description

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

Ordering Key

G 3830 5543 024

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

Type Selection

Supply	Ordering no. 8 channels 5 A/250 VAC
24 VAC	**G 3830 5543 024**
115 VAC	**G 3830 5543 115**
230 VAC	**G 3830 5543 230**
15-30 VDC	**G 3830 5543 824**

Supply Specifications

Power supply AC types		Overvoltage 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
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)

Power supply DC type	Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22 824	15 to 30 VDC (ripple included)
Ripple	≤ 3 V
Reverse-polarity protection	Yes
Rated operational power	≤ 1.5 W
Power dissipation	≤ 5.5 W
Inrush current	≤ 1 A
Rated impulse withstand voltage	800 V
Dielectric voltage	
Supply - Dupline®	≥ 200 VAC (rms)
Supply - Inputs	≥ 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 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 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.

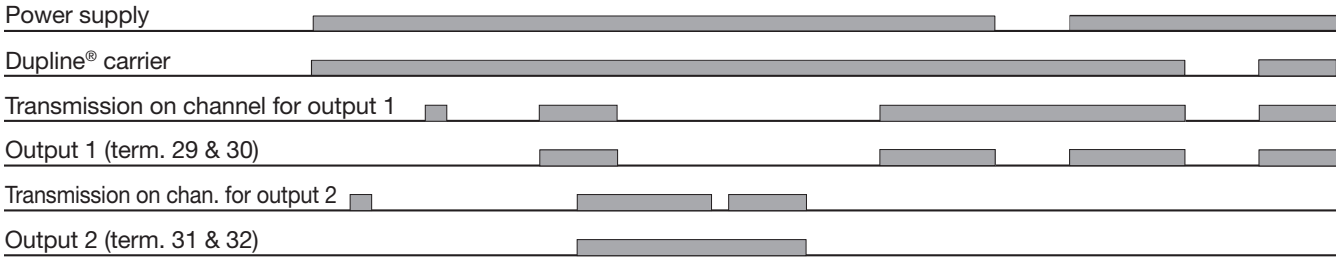
The outputs are normally off. When a transmitter coded to the selected channel is activated, the output turns on and remains on until the respective channel becomes deactivated.

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

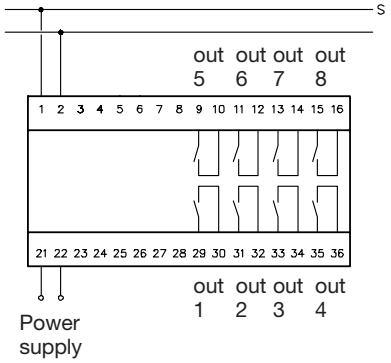
Output connections

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



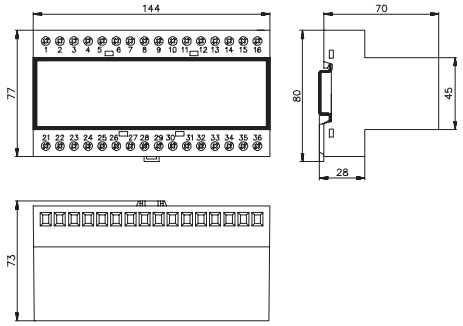
Wiring Diagram



S: signal wire

Dimensions (mm)

H8-housing



Accessories

DIN-rail FMD 411

For further information see "Accessories".