

Receiver for Digital Signals Types GAD 1111, GAD 1213



- 1- or 2-channel receiver
- Galvanically separated SPDT relay outputs
- Load: 1 x 10 A/250 VAC
2 x 10 A/250 VAC
- D-housing
- Plug-in type module
- LED-indications for supply, outputs and Dupline carrier
- AC or DC power supply
- Channel coding by GAP 1605

Product Description

Dupline® receiver. Control of 1 or 2 loads of up to 250 VAC/10 A. SPDT relay outputs for con-

Ordering Key

GAD 1213 024

Type: Dupline® _____
 No. of channels _____
 Output type _____
 Power supply _____

Type Selection

Supply	Ordering no. 1 channel 10 A/250 VAC	Ordering no. 2 channels 10 A/250 VAC
24 VAC 115 VAC 230 VAC	GAD 1111 024 GAD 1111 115 GAD 1111 230	GAD 1213 024 GAD 1213 115 GAD 1213 230
10 to 30 VDC 15 to 30 VDC	GAD 1111 800	GAD 1213 824

Output Specifications

	GAD 1111 ... (1 channel)	GAD 1213 ... (2 channels)
Outputs	1 SPDT relay	2 SPDT relays
Isolated in groups of	1 x 1	2 x 1
Contact ratings (AgCdO)	μ (micro gap)	μ (micro gap)
Resistive loads	10 A/250 VAC (2500 VA)	10 A/250 VAC (2500 VA)
	DC 1 1 A/250 VDC (250 W)	1 A/250 VDC (250 W)
	or 10 A/25 VDC (250 W)	10 A/25 VDC (250 W)
Inductive loads	AC 15 2.5 A/230 VAC	2.5 A/230 VAC
	DC 13 5 A/24 VDC	5 A/24 VDC
Mechanical lifetime	≥ 30 x 10 ⁶ operations	≥ 30 x 10 ⁶ operations
Electrical lifetime (at max load)	AC 1 ≥ 2.5 x 10 ⁵ operations	≥ 2.5 x 10 ⁵ operations
Operating frequency	≤ 7200 operations/h	≤ 7200 operations/h
Dielectric voltage		
Outputs - Dupline®	≥ 2 kVAC (rms)	≥ 2 kVAC (rms)
Response time	1 pulse train	1 pulse train

Supply Specifications

Power supply AC types	Overvoltage cat. III (IEC60664)	Power supply DC types	Overvoltage cat. III (IEC60664)
Rated operational voltage through pins A1 & A2	230 230 VAC ± 15% (IEC 60038) 115 115 VAC ± 15% (IEC 60038) 024 24 VAC ± 15%	Operational voltage through pins A1 & A2	10 to 30 VDC 15 to 30 VDC
Frequency	45 to 65 Hz	Ripple	≤ 3 V
Voltage interruption	≤ 40 ms	Reverse-polarity protection	Yes
Rated operational power		Rated operational current	
GAD 1111 024/115/230	typ. 3.0 VA	GAD 1111 800	≤ 120 mA
GAD 1213 024/115/230	typ. 3.5 VA	GAD 1213 824	≤ 150 mA
Rated impulse withstand voltage		Inrush current	≤ 1 A
230	4 kV	Rated impulse withstand voltage	800 V
115	2.5 kV	Dielectric voltage	
024	800 V	Supply - Dupline®	≥ 200 VAC (rms)
Dielectric voltage		Supply - Outputs	≥ 2 kVAC (rms)
Supply - Dupline	≥ 2 kVAC (rms)		
Supply - Outputs	≥ 2 kVAC (rms)		

General Specifications

Output OFF delay upon loss of Dupline® carrier	20 ms
Power ON delay	typ. 2 s
Indication for	
Supply ON	LED, green
Output ON	LED, red (one per output)
Dupline® carrier	LED, yellow
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)	D-Housing
Weight	
AC types	200 g
DC types	125 g

Mode of Operation

1-channel receiver with change-over contact output For details, please refer to datasheet on GAP 1605.

The output is coded by means of the code programmer GAP 1605.

The output is 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 the out-put goes off.

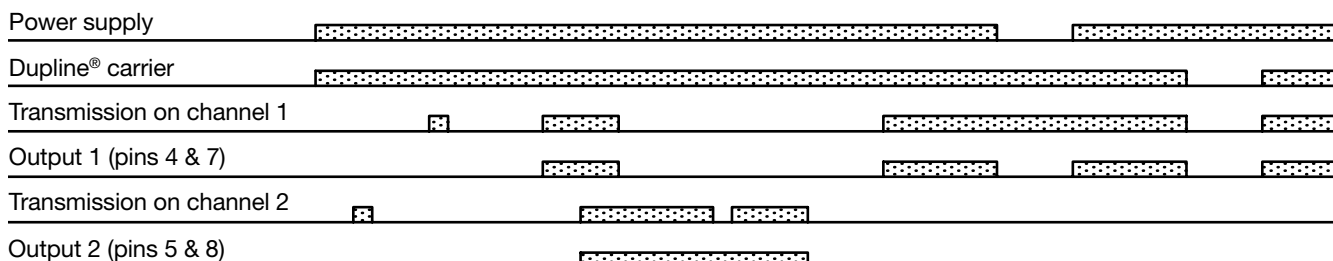
The outputs are normally off. When a transmitter coded to the selected channel is activated, the output turns on and remains on until the respective channel becomes deactivated. The default setting of the module is such that upon loss of Dupline® carrier the output goes off.

For changing the default setting, please refer to the datasheet on GAP 1605.

2-channel receiver with two change-over contact outputs

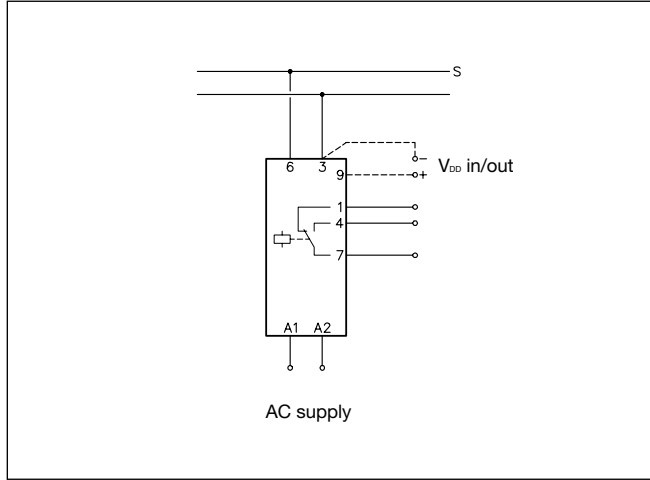
Each output may be coded individually by means of the code programmer GAP 1605.

Operation Diagram

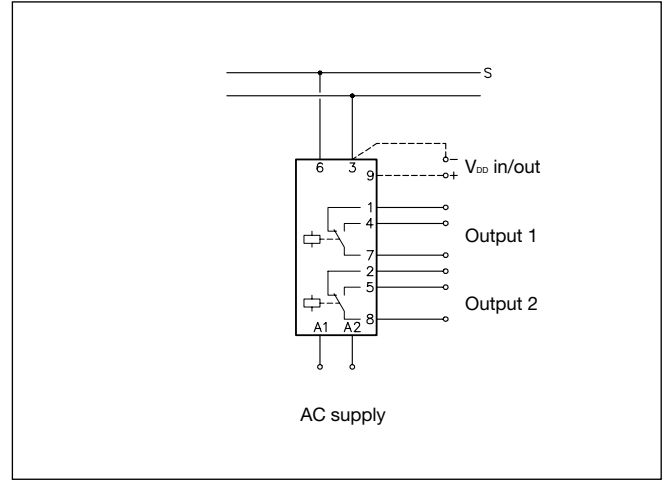


Wiring Diagrams

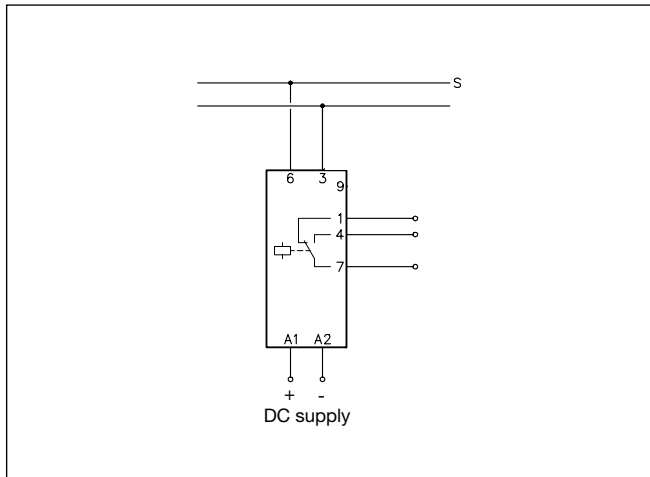
1 channel GAD 1111 024/115/230
AC supply



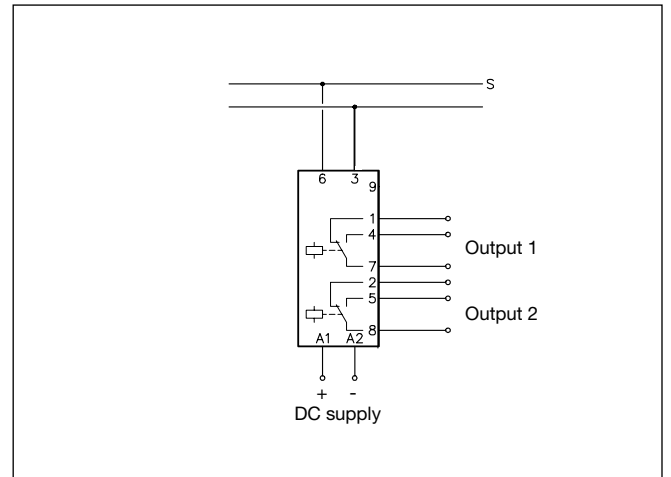
2 channels GAD 1213 024/115/230
AC supply



1 channel GAD 1111 800
DC supply



2 channels GAD 1213 824
DC supply



S: signal wire

Accessories

Socket ◊	D 411
Socket cover	BB 5
Hold down spring ◊	HF
Front mounting bezel	FRS 3
DIN-rail for D 411	FMD 411

For further information, see "Accessories".