

Dupline® Field- and Installationbus Receiver for Digital Signals

Types G 3430 5511, G 3430 5521

CARLO GAVAZZI



- 8-channel receiver
- Optoisolated NPN (sink) or PNP (source) transistor outputs
- Load: 8 x 0.7 A/60 VDC
- Reverse-polarity protection
- H4-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply and Dupline carrier
- AC or DC power supply
- Channel coding by GAP 1605

Product Description

Dupline receiver.
Open collector NPN or PNP transistor outputs for control of loads up to 60 VDC/0.7 A.

Ordering Key

G 3430 5521 024

Type: Dupline _____
H4-housing _____
Receiver _____
No. of channels _____
Output type _____
Power supply _____

Type Selection

Supply	Ordering no. 8 channels 0.7 A/60 VDC NPN transistor	Ordering no. 8 channels 0.7 A/60 VDC PNP transistor
24 VAC	G 3430 5511 024	G 3430 5521 024
115 VAC	G 3430 5511 115	G 3430 5521 115
230 VAC	G 3430 5511 230	G 3430 5521 230
10 to 30 VDC	G 3430 5511 800	G 3430 5521 800

Output Specifications

	G 3430 5511 ... (8 channels)	G 3430 5521 ... (8 channels)
Outputs	8 NPN transistors	8 PNP transistors
Isolated in groups of	1 x 8	1 x 8
Output voltage range V_{BB}	6 to 60 VDC	6 to 60 VDC
Reverse-polarity protection	Yes	Yes
Current per output (25°C)	≤ 0.7 A	≤ 0.7 A
Total load capability (25°C)	51%	51%
Short-circuit protection	None	None
Built-in protective diodes	None	None
Off-state leakage current	≤ 100 µA	≤ 100 µA
Output voltage drop	≤ 1.5 VDC	≤ 1.5 VDC
Dielectric voltage	≥ 4 kVAC (rms)	≥ 4 kVAC (rms)
Outputs - Dupline		



Supply Specifications

Power supply AC types		Overvoltage cat. III (IEC 60664)	Power supply DC types		Overvoltage cat. III (IEC 60664)
Rated operational voltage			Rated operational voltage		
terminals 21 & 22	230	230 VAC ± 15% (IEC 60038)	terminals 21 & 22	800	10 to 30 VDC
	115	115 VAC ± 15% (IEC 60038)			(ripple included)
	024	24 VAC ± 15%			≤ 3 V
Frequency		45 to 65 Hz	Ripple		Yes
Voltage interruption		≤ 40 ms	Reverse-polarity protection		≤ 150 mA
Rated operational power		Typ. 3.5 VA	Rated operational current		≤ 1 A
Rated impulse withstand			Inrush current		
voltage	230	4 kV	Rated impulse withstand		800 V
	115	2.5 kV	voltage		
	024	800 V	Dielectric voltage		≥ 200 VAC (rms)
Dielectric voltage			Supply - Dupline		≥ 4 kVAC (rms)
Supply - Dupline		≥ 4 kVAC (rms)	Supply - Outputs		
Supply - Outputs		≥ 4 kVAC (rms)			

General Specifications

Power ON delay	Typ. 2 s
Power OFF delay	≤ 1 s
Output OFF delay	
upon loss of Dupline carrier	≤ 20 ms
Indication for	
Supply ON	LED, green
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)	4H-housing
Weight	
AC types	250 g
DC types	200 g

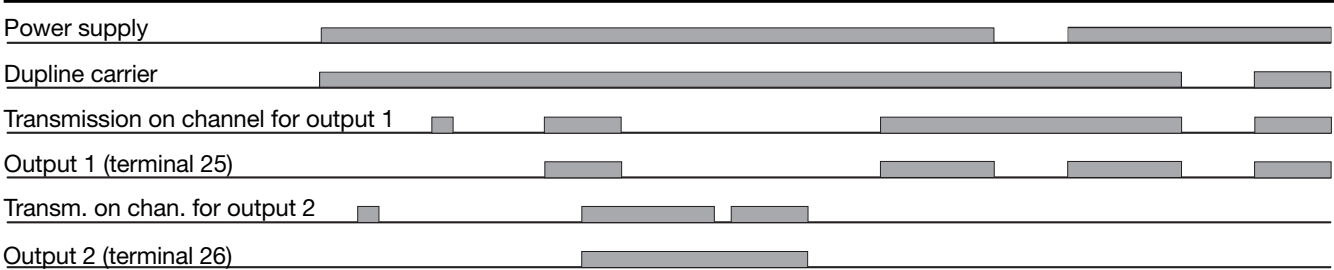
Mode of Operation

G 3430 55.1 ...
8-channel receivers with 8 open collector NPN or PNP outputs

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 (interruption or short-circuiting of Dupline carrier).

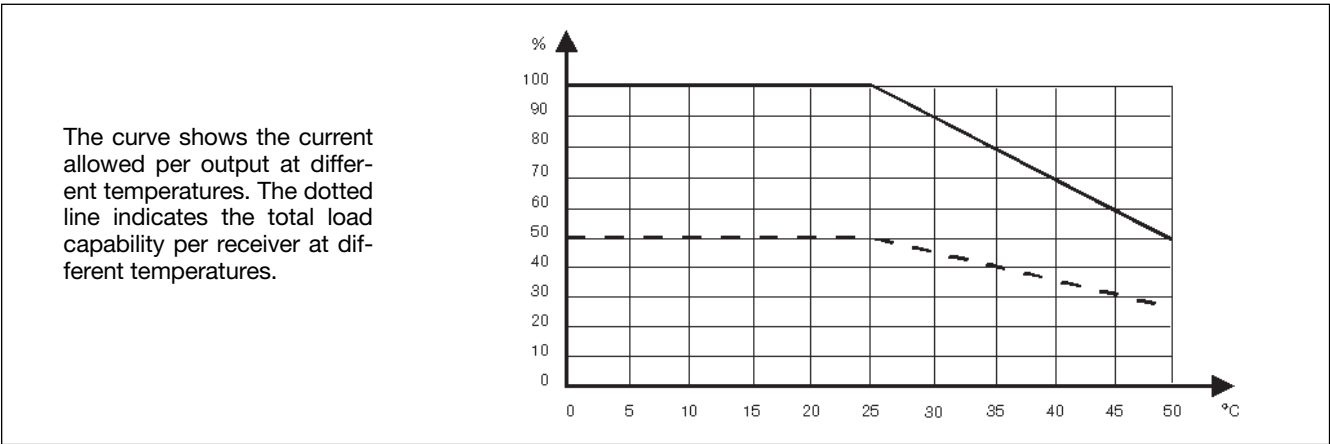
Each output may be coded individually by means of the code programmer GAP 1605. See separate data sheet.

Operation Diagram



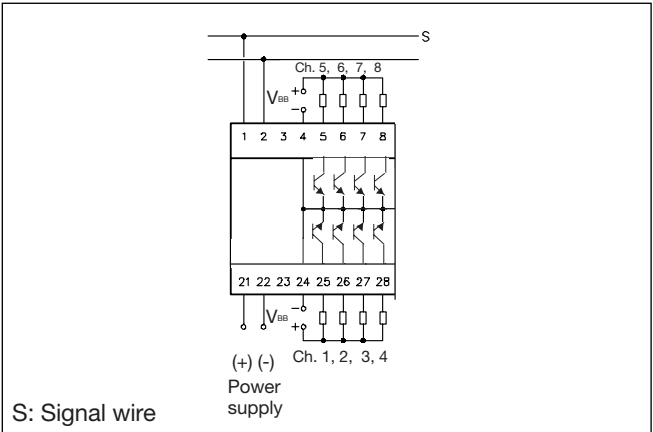


Derating Curve

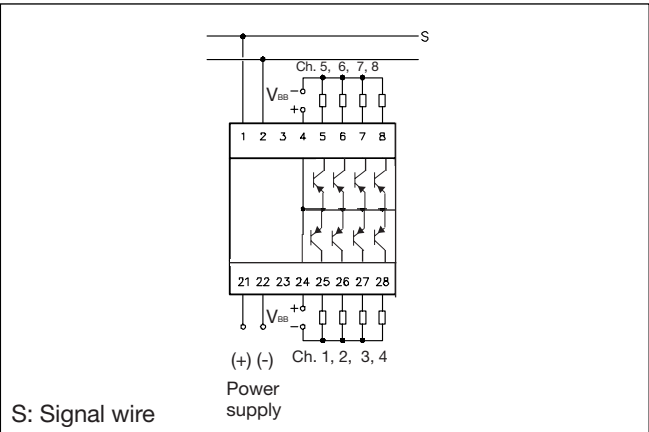


Wiring Diagrams

G 3430 5511 ... 8 channels
Open collector NPN transistor output



G 3430 5521 ... 8 channels
Open collector PNP transistor output



Accessories

DIN-rail FMD 411

For further information, see "Accessories".