Dupline® Field- and Installationbus Receiver for Digital Signals Types G 3430 5511, G 3430 5521

- 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 Outputs - Dupline	≥ 4 kVAC (rms)	≥ 4 kVAC (rms)

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Supply Specifications

Power supply AC types		Overvoltage cat. III (IEC 60664)
Rated operational voltage terminals 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. 3.5 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 types		Overvoltage cat. III (IEC 60664)
Rated operational voltage terminals 21 & 22	800	10 to 30 VDC (ripple included)
Ripple		≤ 3 V
Reverse-polarity protection		Yes
Rated operational current		≤ 150 mA
Inrush current		≤ 1 A
Rated impulse withstand voltage		800 V
Dielectric voltage		
Supply - Dupline		≥ 200 VAC (rms)
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

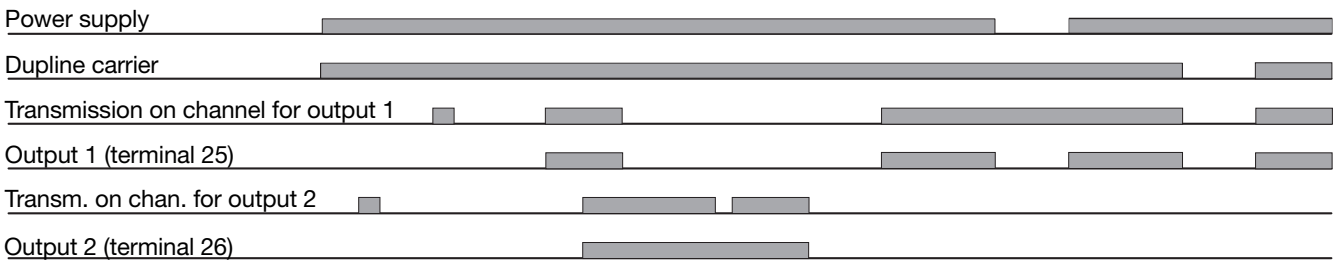
Mode of Operation

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

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

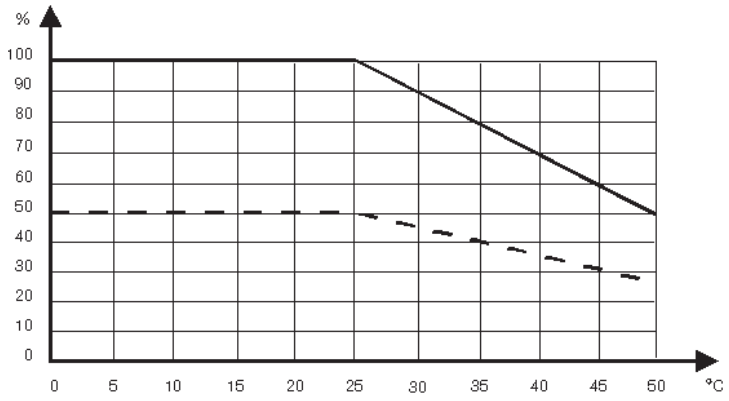
The outputs are normally off. When a transmitter coded to the selected channel is activated, the output turns on and remains on until the respective channel becomes deactivated (interruption or short-circuiting of Dupline carrier).

Operation Diagram



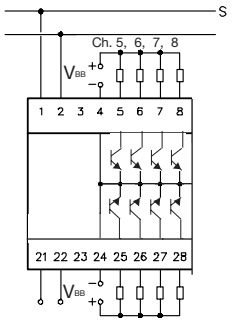
Derating Curve

The curve shows the current allowed per output at different temperatures. The dotted line indicates the total load capability per receiver at different temperatures.



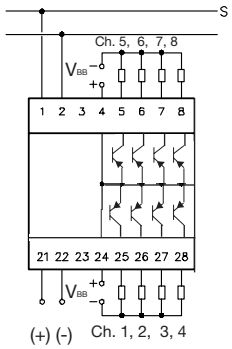
Wiring Diagrams

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



S: Signal wire

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



S: Signal wire

Accessories

DIN-rail	FMD 411

For further information, see "Accessories".