

Transceiver for Digital Signals Type G 3440 5543



- 6-channel monostable transceiver
- 4 opto-isolated contact inputs
- 2 SPST relay outputs
- Load 2 x 5 A/250 VAC
- H4-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply, Dupline® carrier, input ON and outputs
- AC power supply
- Channel coding by GAP 1605

Product Description

Dupline® transceiver with 4 contact inputs and 2 SPST

Ordering Key

G 3440 5543 230

Type: Dupline® _____
 H4-housing _____
 Transceiver _____
 No. of channels _____
 Input/output type _____
 Power supply _____

Type Selection

Supply

230 VAC

Ordering no.

6 channels
 4 x contact input
 2 x SPST relay outputs

G 3440 5543 230

Input Specifications

Inputs	4 contacts or NPN transistors
Open loop voltage	24 VDC
Short-circuit current	< 8 mA
Operating time for signal "1"	≤ 1 pulse train + 30 ms
Operating time for signal "0"	≤ 1 pulse train + 30 ms
Contact resistance	≤ 100 Ω
Cable length	≤ 25 m
Dielectric voltage	≥ 200 VAC (rms)
Inputs - Dupline®	

Output Specifications

Output	2 SPST relays
Isolated in groups of	2 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 x 10 ⁶ operations
Operating frequency	≤ 7200 operations/h
Dielectric voltage	
Outputs - Dupline®	≥ 4 kVAC (rms)
Response time	1 pulse train

Supply Specifications

Power supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	230 VAC ± 15% (IEC 60038)
Frequency	45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	Typ. 4 VA
Power dissipation	≤ 8 W
Rated impulse withstand voltage	4 kV
Dielectric voltage	
Supply - Dupline®	≥ 4 kVAC (rms)
Supply - Inputs	≥ 4 kVAC (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
Output	LED, red (one per output)
Input activated	LED, red
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)	H4-Housing
Weight	250 g

Mode of Operation

Each input and each output may be coded individually by means of the code programmer GAP 1605. For the general procedure of coding, please refer to the respective data sheet. In order to allocate a code address to the inputs/outputs of the G 3440 5543, it is necessary to set the GAP 1605 in single channel addressing mode.

When a contact is used to short-circuit terminals 4 and 5 (input 1), the transmitter transmits on the channel coded for input 1.

When an NPN open collector transmitter between terminals 4 and 8 (input 4) pulls the input low (< +1 V), the transmitter transmits on the channel coded for input 4.

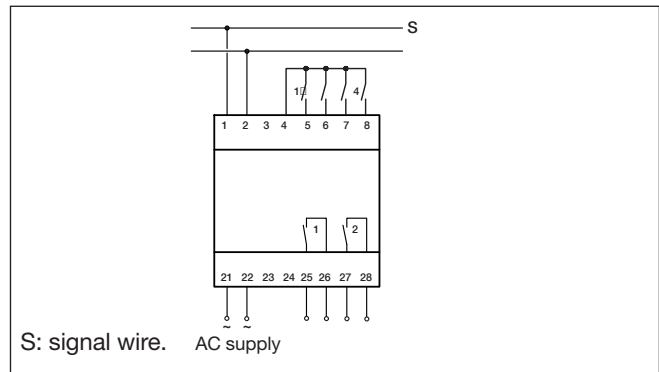
Whenever the contact of the input is opened, the transmitter stops transmitting on the respective channel.

The table below shows the relation between the inputs/outputs of the G 3440 5543 and the In/Out-markings on the GAP 1605.

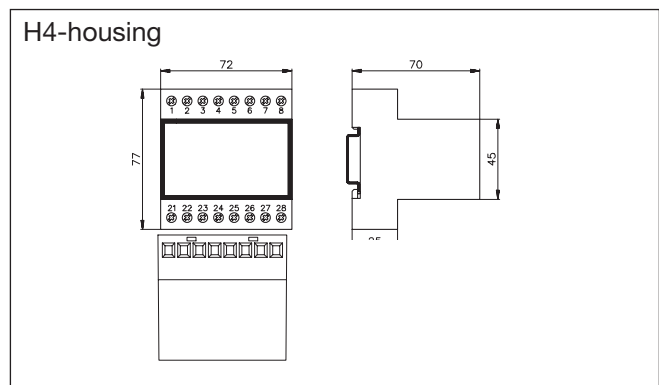
Output/input connections	
Input 1:	terminals 4 & 5
Input 2:	terminals 4 & 6
Input 3:	terminals 4 & 7
Input 4:	terminals 4 & 8
Output 1:	terminals 25 & 26
Output 2:	terminals 27 & 28

GAP 1605	G 3440 5543
In/out 1	Input 1
In/out 2	Input 2
In/out 3	Input 3
In/out 4	Input 4
In/out 5	Output 1
In/out 6	Output 2
In/out 7	Not used
In/out 8	Not used

Wiring Diagrams

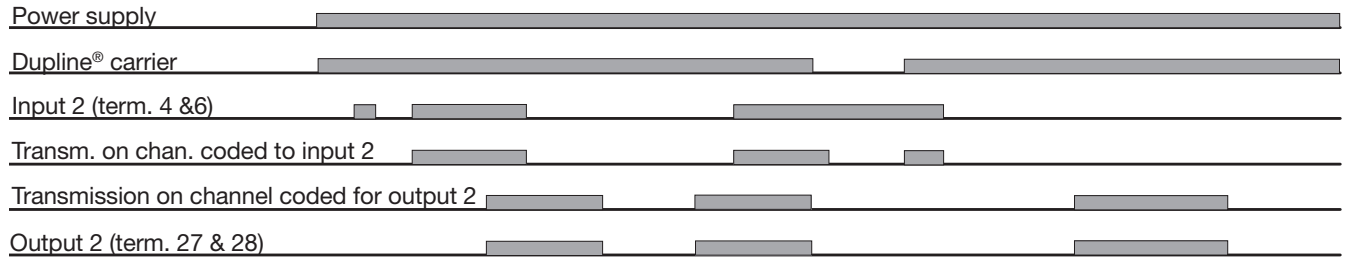


Dimensions (mm)



Operation Diagram

Shown with channels 1 - 2 transmitting and channels 3 - 4 receiving



Accessories

DIN-rail FMD 411

For further information, see "Accessories".