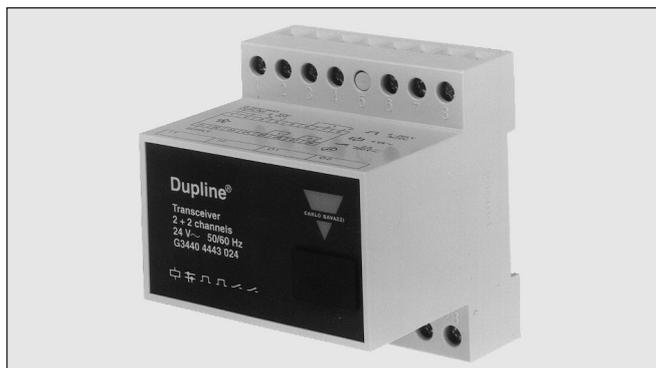


Transceiver for Digital Signals Type G 3440 5543



- 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 or DC power supply
- Channel coding by GAP 1605

Product Description

Dupline[®] transceiver with 4 contact inputs and 2 SPST

Ordering Key

G 3440 5543 024

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

Type Selection

Supply

24 VAC
115 VAC
230 VAC

Ordering no.

6 channels
4 x contact input
2 x SPST relay outputs

G 3440 5543 024
G 3440 5543 115
G 3440 5543 230

Input Specifications

Inputs

AC version:

Open loop voltage

Short-circuit current

Operating time for signal "1"

Operating time for signal "0"

Contact resistance

Cable length

Dielectric voltage

Inputs - Dupline[®]

4 contacts or
NPN transistors

24 VDC

< 8 mA

≤ 1 pulse train + 30 ms

≤ 1 pulse train + 30 ms

≤ 100 Ω

≤ 25 m

≥ 200 VAC (rms)

Output Specifications

Output

Isolated in groups of

Contact ratings (AgCdO)

Resistive loads

AC 1

DC 1

Inductive loads

AC 15

DC 13

Mechanical lifetime

Electrical lifetime

(at max load) AC 1

Operating frequency

Dielectric voltage

Outputs - Dupline[®]

2 SPST relays

2 x 1

μ (micro gap)

≤ 5 A/250 VAC (1250 VA)

≤ 0.25 A/250 VDC (62 W)

≤ 5 A/25 VDC (125 W)

2.5 A/230 VAC

5 A/24 VDC

≥ 30 x 10⁶ operations

≥ 2 x 10⁶ operations

≤ 7200 operations/h

≥ 4 kVAC (rms)

Response time

1 pulse train

Supply Specifications

Power supply AC types	Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	230
115	230 VAC ± 15% (IEC 60038)
024	115 VAC ± 15% (IEC 60038) 24 VAC ± 15%
Frequency	45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	Typ. 4 VA
Power dissipation	≤ 8 W
Rated impulse withstand voltage	230 4 kV 115 2.5 kV 024 800 V
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.

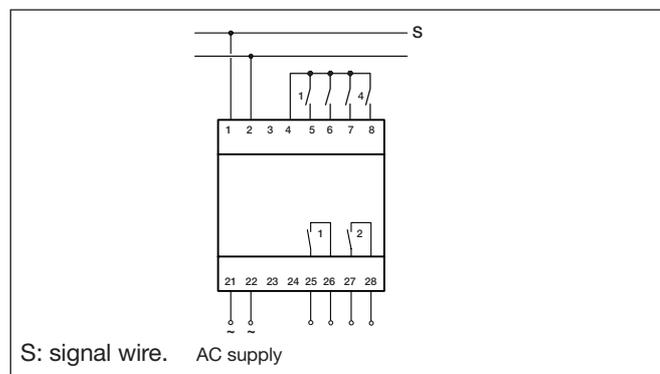
Output/input connections

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

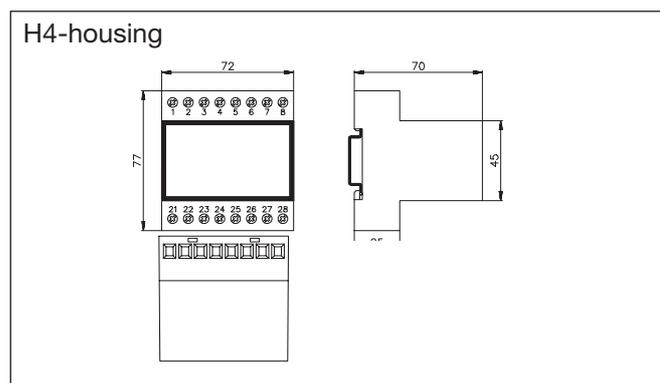
GAP 1605	G 3440 5543
In/out 1	Input 1
In/out 2	Input 2
In/out 3	Input 3
In/out 4	Input 4
In/out 5	Output 1
In/out 6	Output 2
In/out 7	Not used
In/out 8	Not used

Wiring Diagrams

G 3440 5543 024/115/230 AC supply

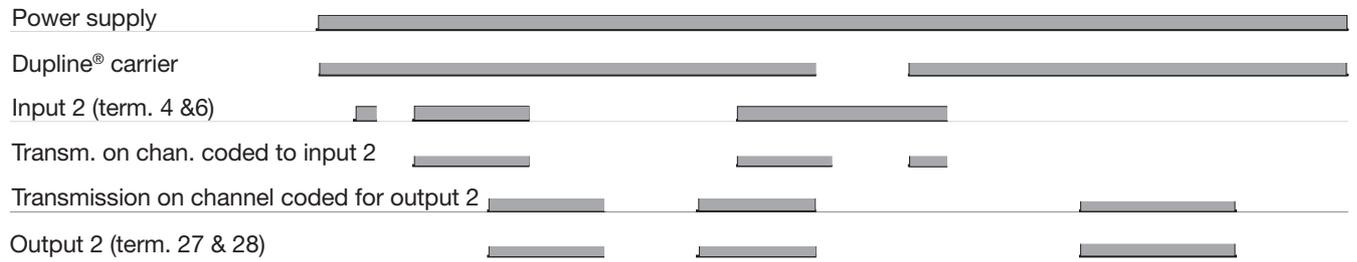


Dimensions (mm)



Operation Diagram

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



Accessories

DIN-rail FMD 411

For further information, see "Accessories".