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

relay outputs.

Ordering Key	_ G 3440 5543 024
Type: Dupline®	
H4-housing —	
Transceiver	
No. of channels	
Input/output type ———	
Power supply	

Type Selection

Supply	Ordering no.
	6 channels
	4 x contact input
	2 x SPST relay outputs
24 VAC	G 3440 5543 024
115 VAC	G 3440 5543 115
230 VAC	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

 \leq 1 pulse train + 30 ms \leq 1 pulse train + 30 ms

 \leq 1 pulse \leq 100 Ω \leq 25 m

≥ 200 VAC (rms)

Output Specifications

Output		2 SPST relays
Isolated in groups of		2 x 1
Contact ratings (AgC Resistive loads	dO) AC 1 DC 1 or	µ (micro gap) ≤ 5 A/250 VAC (1250 VA) ≤ 0.25 A/250 VDC (62 W) ≤ 5 A/25 VDC (125 W)
Inductive loads	AC 15 DC 13	,
Mechanical lifetime Electrical lifetime		≥ 30 x 106 operations
(at max load) Operating frequency	AC 1	≥ 2 x 10 ⁶ operations ≤ 7200 operations/h
Dielectric voltage		2 /200 operations/ii
Outputs - Dupline®		≥ 4 kVAC (rms)
Response time		1 pulse train



Supply Specifications

Power supply AC types
Rated operational voltage
through term. 21 & 22 230

115 024

Frequency
Voltage interruption
Rated operational power
Power dissipation
Rated impulse withstand
voltage 23

230 115 024

Dielectric voltage Supply - Dupline® Supply - Inputs Supply - Outputs Overvoltage cat. III (IEC 60664)

230 VAC ± 15% (IEC 60038)
115 VAC ± 15% (IEC 60038)
24 VAC ± 15%
45 to 65 Hz
≤ 40 ms
Typ. 4 VA
≤ 8 W

4 kV
2.5 kV
800 V

≥ 4 kVAC (rms)
≥ 4 kVAC (rms)
≥ 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 Dupline® carrier Output Input activated	LED, green LED, yellow LED, red (one per output) LED, red
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 (IEC 60664) -20° to +50°C (-4° to +122°F) -50° to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance Shock Vibration	15 G (11 ms) 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.

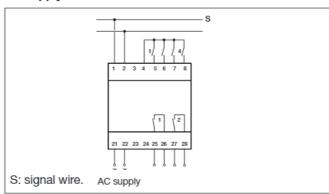
Output/input connections

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

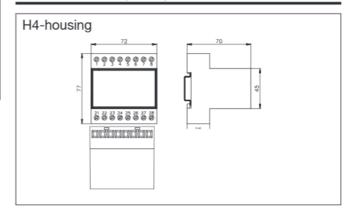
GAP 1605	G 3440 5543
In/out 1	Input 1
In/out 2	Input 2
In/out 3	Input 3
In/out 4	Input 4
In/out 5	Output 1
In/out 6	Output 2
In/out 7	Not used
In/out 8	Not used

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						
Power supply						
Dupline® carrier						
Input 2 (term. 4 &6)						
Transm. on chan. coded to in	iput 2		_			
Transmission on channel coo	led for output 2					
Output 2 (term. 27 & 28)						

Accessories

DIN-rail

FMD 411

For further information, see "Accessories".