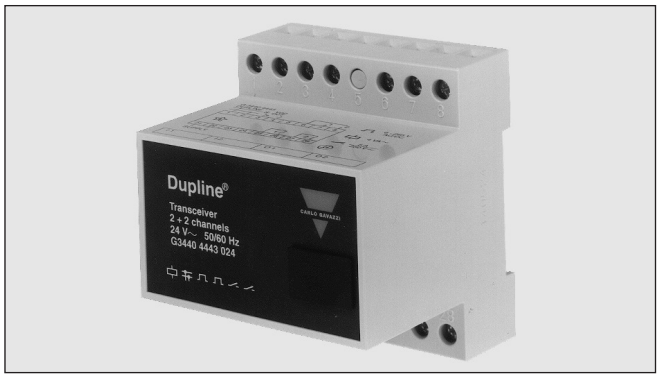
Transceiver for Digital Signals
Type G 3440 4443



- **4-channel monostable transceiver**
- **2 opto-isolated voltage inputs: 10 to 265 VAC/DC**
- **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, inputs and outputs**
- **AC or DC power supply**
- **Channel coding by GAP 1605**

Product Description

Dupline® transceiver with 2 in-puts for AC/DC voltages and 2 SPST relay outputs.

Ordering Key

G 3440 4443 024

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

Type Selection

Supply	**Ordering no.** **4 channels** **2 x voltage input** **2 x SPST relay outputs**
24 VAC	**G 3440 4443 024**
115 VAC	**G 3440 4443 115**
230 VAC	**G 3440 4443 230**
15 to 30 VDC	**G 3440 4443 824**

Input Specifications

Inputs	2 voltage-type
Isolated in groups of	1 x 2
Input voltage V_{BB}	10 to 265 VAC/DC
Frequency range on AC	45 to 400 Hz
Input voltage for signal “0”	≤ 1 VAC/DC
Input voltage for signal “1”	≥ 10 VAC/DC
Input current for signal “1”	Typ. 10 mA (V_{BB} 10-18 VDC) lower at other input voltages
Input current limiter	Yes
Inrush current	≤ 450 mA (@ V_{BB} = 265 VDC)
Operating time for signal “1”	≤ 1 pulse train + 3 ms
Operating time for signal “0”	≤ 1 pulse train + 50 ms
Cable length	≤ 25 m
Dielectric voltage	
Inputs - Dupline®	≥ 4 kVAC (rms)
Inputs - Outputs	≥ 4 kVAC (rms)

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

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Supply Specifications

Power supply AC types		Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 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. 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)
Power supply DC type		Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22	824	15 to 30 VDC (ripple included)
Ripple		≤ 3 V
Reverse-polarity protection		Yes
Rated operational power		≤ 1.5 W
Power dissipation		≤ 5.5 W
Inrush current		≤ 1 A
Rated impulse withstand voltage		800 V
Dielectric voltage		
Supply - Dupline®		≥ 200 VAC (rms)
Supply - Inputs		≥ 4 kVAC (rms)
Supply - Outputs		≥ 4 kVAC (rms)
AC types as input supply source		
Source voltage V_{DD} out through term. 3 & 4		12 VDC
Source current		≤ 20 mA
Short-circuit protection		Yes
Dielectric voltage		
Supply output - Dupline®		≥ 200 VAC (rms)
Cable length		≤ 25 m

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
Input/Output	LED, red (one per in-/output)
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)
Terminals	Screwterminals
Tightening torque	0.8 Nm
Dimensions	H4-Housing
Weight	250 g

Mode of Operation

Each input and each output may be coded individually by means of the code program-mer 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 4443, it is necessary to set the GAP 1605 in single chan-nel addressing mode.

When a voltage (10 to 265 VAC/DC) is applied to input 1 (terminal 7), the G 3440 4443 transmits on the Dupline® channel coded for input 1. Output 1 turns on when a transmitter coded to the same Dupline® address as output 1 becomes activated.

The table below shows the relation between the inputs/outputs of the G 3440 4443 and the In/Out-markings on the GAP 1605.

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

GAP 1605	G 3440 4443
In/out 1	Input 1
In/out 2	Input 2
In/out 3	Not used
In/out 4	Not used
In/out 5	Output 1
In/out 6	Output 2
In/out 7	Not used
In/out 8	Not used

Operation Diagram

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

Power supply

Dupline® carrier

Input 2 (term. 6 &8)

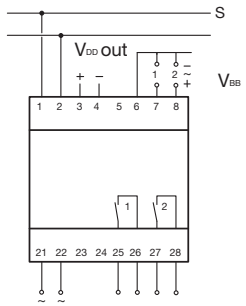
Transm. on chan. coded to input 2

Transmission on channel coded for output 2

Output 2 (term. 27 & 28)

Wiring Diagrams

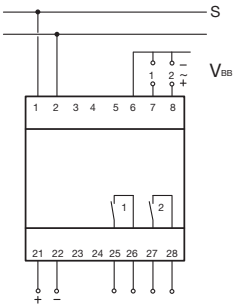
G 3440 4443 024/115/230
AC supply



AC supply

S: signal wire.

G 3440 4443 824
DC supply

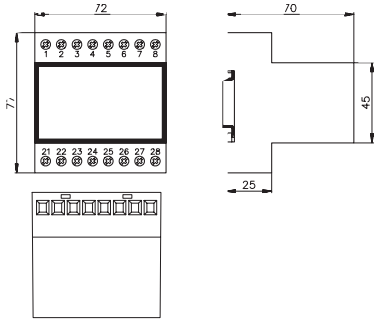


DC supply

S: signal wire.

Dimensions (mm)

H4-housing



Accessories

DIN-rail FMD 411

For further information, see “Accessories”.

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