





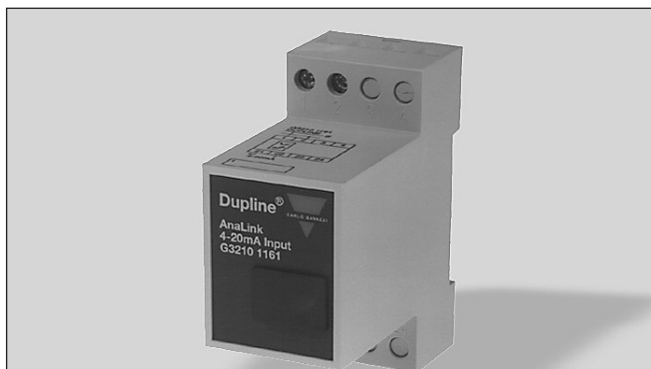








# Transmitter for Analog Current Signals Type G 3210 1161



- AnaLink transmitter with 4 to 20 mA input
- 8-bit resolution
- Optical isolation
- Uses only 1 channel
- Channel coding by GAP 1605
- Supplied by Dupline<sup>®</sup> and current signal
- H2-housing
- For mounting on DIN-rail in accordance with EN 50022

## Product Description

Dupline<sup>®</sup> AnaLink transmitter with 4 to 20 mA input. Converts the 4 to 20 mA input signal to an 8-bit binary value, which is transmitted to the controller G 3890 0030 230. In this unit the analog values can

be scaled, logged and printed out and/or read from a PC. The 4 to 20 mA signal must be able to supply a voltage drop of 6 V, since the analog part of the transmitter is supplied by the input signal.

## Ordering Key

**G 3210 1161**

Type: Dupline<sup>®</sup>  
Type

## Type Selection

Supply

Ordering no.  
**1 channel  
4 to 20 mA**

By Dupline<sup>®</sup> and current signal

**G 3210 1161**

## Supply Specifications

Current consumption

from Dupline<sup>®</sup>

< 1.1 mA

Power dissipation

< 10 mW

## Input Specifications

### Signal input

Voltage drop

Resolution

Max. current

Inaccuracy

(entire temperature range)

Cable length

Dielectric voltage

4 to 20 mA

≤ 6 V

8-bit (62.5 μA/LSB)

100 mA

≤ 1%

≤ 25 m

≥ 2 kV

### Response time

256 pulse trains  
(~ 18 s @ 64 channels)

## General Specifications

### Channel programming

By GAP 1605

### Channel assignment

1 channel,  
freely programmable

### Environment

Degree of protection

IP 20

Pollution degree

3 (IEC 60664)

Operating temperature

0° to +50°C (+32° to +122°F)

Storage temperature

-50° to +85°C (-58° to +185°F)

### Humidity (non-condensing)

20 to 80% RH

### Mechanical resistance

Shock

15 G (11 ms)

Vibration

2 G (6 to 55 Hz)

### Dimensions

### Material

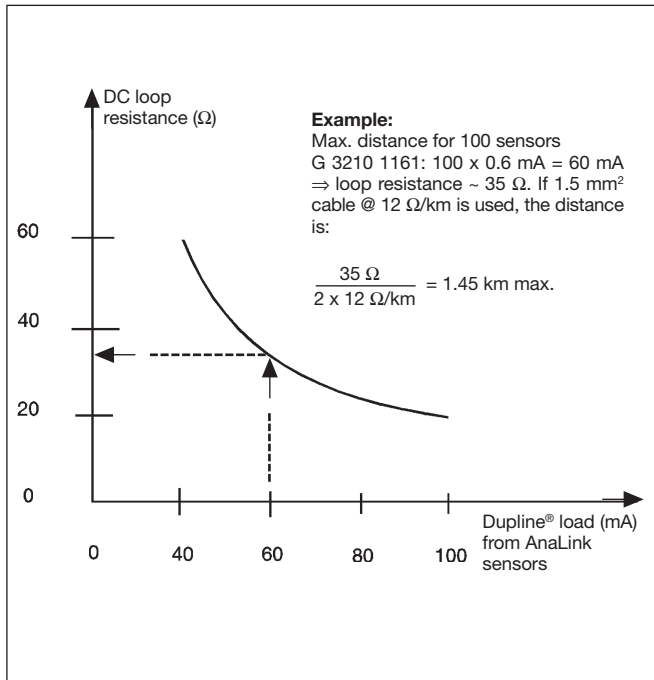
(see "Technical Information")

H2-housing

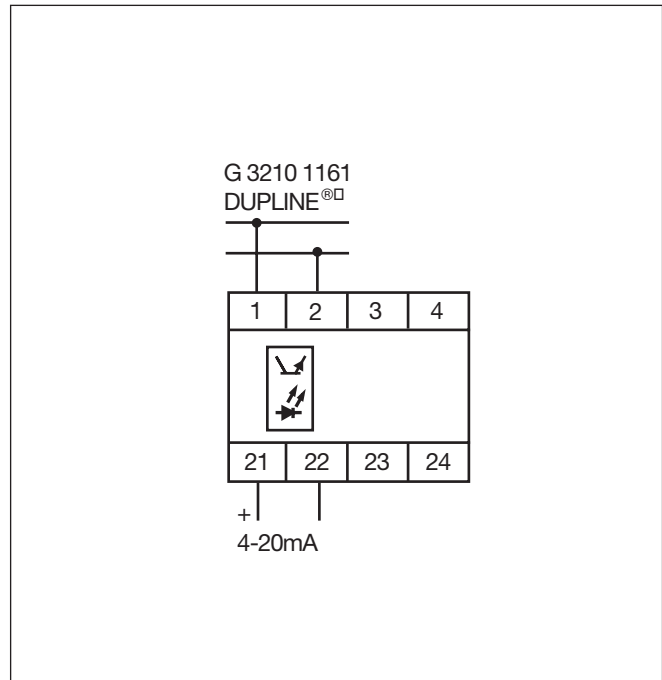
### Weight

90 g

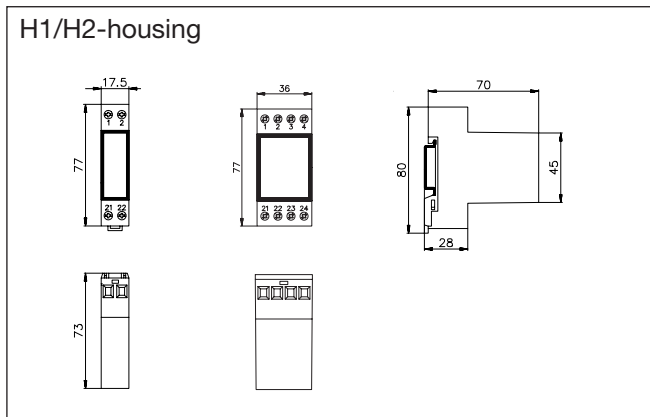
## Distance Versus No. of Sensors



## Wiring Diagram



## Dimensions (mm)



## Accessories

DIN-rail

FMD 411

For further information refer to "Accessories".

# Transmitter for Digital Signals Type G 3420 5501



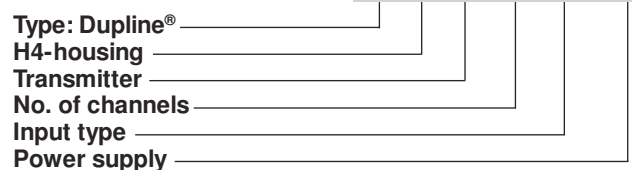
- 8-channel transmitter
- Optoisolated contact or NPN transistor inputs
- H4-housing
- For mounting on DIN-rail (EN 50022)
- LED-indications for supply, input activated and Dupline® carrier
- AC or DC power supply
- Channel coding by GAP 1605

## Product Description

Dupline® transmitter for external supply. Detects the states of 8 volt free contacts and signals from devices with open collector NPN transistor output, e.g. inductive proximity switch EI ... N...

## Ordering Key

**G 3420 5501 024**



## Type Selection

Supply	Ordering no. 8 channels Contact/NPN transistor
24 VAC	<b>G 3420 5501 024</b>
115 VAC	<b>G 3420 5501 115</b>
230 VAC	<b>G 3420 5501 230</b>
10 to 30 VDC	<b>G 3420 5501 800</b>

## Input Specifications

Inputs	8 contacts or NPN transistors
AC version:	
Open loop voltage	7 VDC
Short-circuit current	3 mA
DC version:	
Open loop voltage	10 to 30 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®	

## Supply Specifications

Power supply AC types	Overvoltage cat. III (IEC 60664)	Supply - Inputs	≥ 4 kVAC (rms)
Rated operational voltage through term. 21 & 22	230 VAC, ±15% (IEC 60038)	<b>Power supply DC types</b>	Overvoltage cat. III (IEC 60664)
115	115 VAC, ±15% (IEC 60038)	Rated operational voltage	800
024	24 VAC, ±15%	Ripple	10 to 30 VDC (ripple included)
Frequency	45 to 65 Hz	Reverse-polarity protection	≤ 3 V
Voltage interruption	≤ 40 ms	Rated operational current	yes
Rated operational power	typ. 2.5 VA	Power dissipation	≤ 100 mA
Power dissipation	≤ 4 W	Inrush current	≤ 3.5 W
Rated impulse withstand voltage	4 kV	Rated impulse withstand voltage	≤ 1 A
115	2.5 kV	Dielectric voltage	800 V
024	800 V	Supply - Dupline®	≥ 200 VAC (rms)
Dielectric voltage	≥ 4 kVAC (rms)	Supply - Inputs	None
Supply - Dupline®			

## General Specifications

<b>Power ON delay</b>	typ. 2 s
<b>Indication for</b>	
Supply ON	LED, green
Input activated	LED, red
Dupline <sup>®</sup> carrier	LED, yellow
<b>Environment</b>	
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)
<b>Humidity (non-condensing)</b>	20 to 80%
<b>Mechanical resistance</b>	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
<b>Dimensions</b>	
<b>Material</b>	
(see Technical Information)	H4-Housing
<b>Weight</b>	250 g

## Mode of Operation

8-channel transmitter with 8 inputs for contacts or NPN transistors. An external power supply is not required.

Each input may be coded individually by means of the code programmer GAP 1605. For details, please refer to the respective data sheet.

When a contact is used to short-circuit terminals 24 and 25 (input 1), the transmitter transmits on the channel coded for input 1.

When an NPN open collector transmitter between terminals 24 and 28 (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.

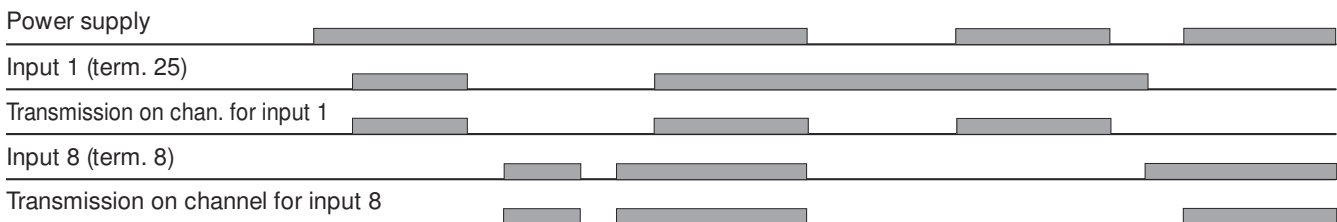
### Notes:

- Terminals 4 and 24 are internally connected.
- Terminals 4 and 24 are common (minus).

### Input connections

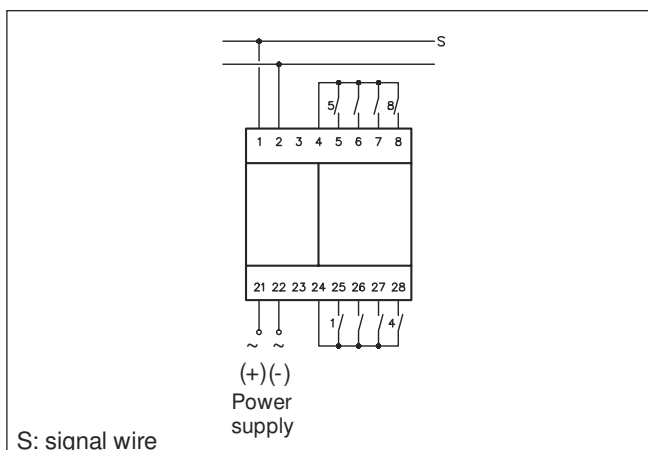
Input 1: terminals 24 & 25  
 Input 2: terminals 24 & 26  
 Input 3: terminals 24 & 27  
 Input 4: terminals 24 & 28  
 Input 5: terminals 4 & 5  
 Input 6: terminals 4 & 6  
 Input 7: terminals 4 & 7  
 Input 8: terminals 4 & 8

## Operation Diagram

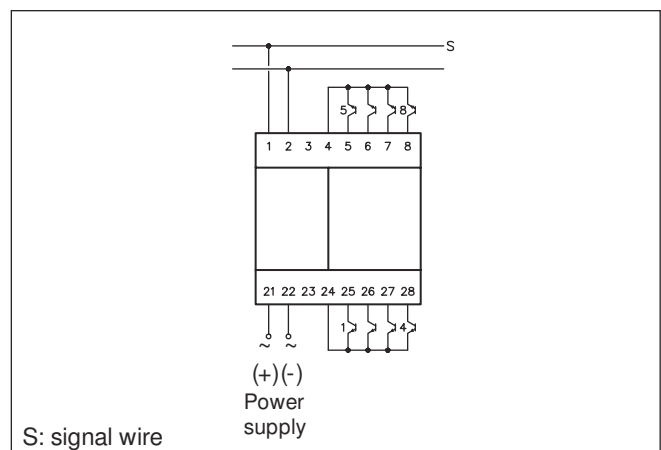


## Wiring Diagrams

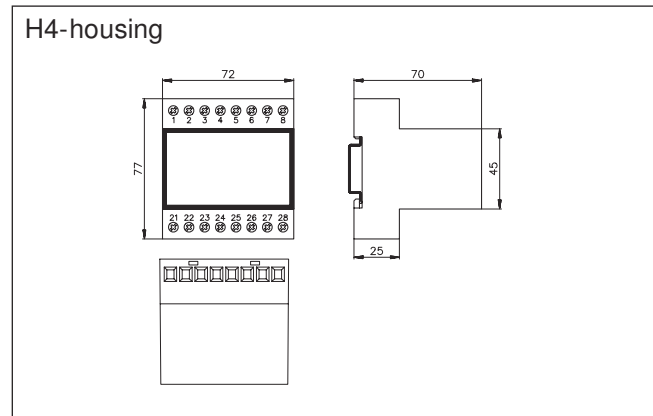
8 channels G 3420 5501 ...  
Contact input



8 channels G 3420 5501 ...  
NPN transistor input



## Dimensions (mm)



## Accessories

For further information, see "Accessories".