Transmitter for Digital Signals Type G 3420 5502





- · 8-channel transmitter
- · 8 opto-isolated voltage inputs: 6 to 265 VAC/DC
- 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 signals from 8 devices with volt-

age outputs of up to 265 VAC/DC, e.g. the presence of mains supply to machinery.

Ordering Key G 3420 5502 024 Type: Dupline® -H4-housing Transmitter No. of channels -Input type -Power supply

Type Selection

Supply	Ordering no. 8 channels 6 to 265 VAC/DC	
24 VAC	G 3420 5502 024	
115 VAC	G 3420 5502 115	
230 VAC	G 3420 5502 230	
10 to 30 VDC	G 3420 5502 800	

Input Specifications

Input voltage range V_{BB} Frequency range on AC Input voltage for signal "0" Input voltage for signal "1" Input current for signal "1"

Input current limiter Inrush current

Operating time for signal "1" Operating time for signal "0" Cable length Dielectric voltage Inputs - Dupline®

8 voltage-type 6 to 265 VAC/DC 45 to 400 Hz ≤ 1 VAC/DC ≥ 6 VAC/DC Typ. 10 mA (V_{BB} 10-18 VDC) lower at other input voltages Yes ≤ 450 mA (at $V_{BB} = 265 \text{ VDC}$) ≤ 1 pulse train + 3 ms ≤ 1 pulse train + 50 ms ≤ 25 m ≥ 4 kVAC (rms)

Supply Specifications

Power supply AC types Rated operational voltage	Overvoltage cat. III (IEC 60664)
through term. 21 & 22 230	230 VAC, ±15%
115	115 VAC, ±15%
024	24 VAC, ±15%
Frequency	45 to 65 Hz
Voltage interruption	≤ 40 ms
Rated operational power	Typ. 4.5 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)
Power supply DC type	Overvoltage cat. III (IEC 60664)

Rated operational voltage

through term. 21 & 22 800 Ripple Reverse-polarity protection Power consumption Power dissipation Inrush current Rated impulse withstand voltage Dielectric voltage Supply - Dupline® Supply - Inputs

64) 10 to 30 VDC (ripple included) ≤ 3 V Yes < 1 W≤ 5.5 W ≤ 1 A 800 V

≥ 200 VAC (rms) ≥ 4 kVAC (rms)



General Specifications

Power ON delay	Typ. 2 s	
Power OFF delay	≤1s	
Output OFF delay upon loss of Dupline® carrier	≤ 20 ms	
Indication for Supply ON Input activated Dupline® carrier	LED, green LED, red LED, yellow	
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

8-channel transmitter with 8 voltage inputs (6 to 265 VAC/DC).

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 voltage (6 to 265 VAC/DC) is applied to terminal 25 (input 1), the transmitter transmits on the channel coded for input 1.

Whenever the voltage of the input is < 1 V, the transmitter

stops transmitting on the respective channel.

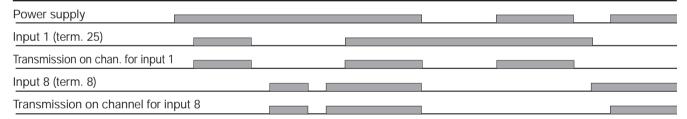
Notes:

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

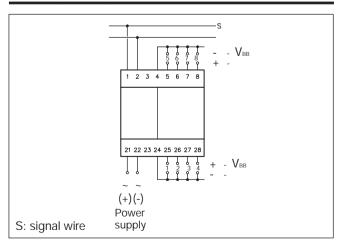
Input co	nnections
Input 1:	terminals 24 & 25
Input 2:	terminals 24 & 26
Input 3:	terminals 24 & 27
Input 4:	terminals 24 & 28
Input 5:	terminals 4 & 5
Input 6:	terminals 4 & 6
Input 7:	terminals 4 & 7

Input 8: terminals 4 & 8

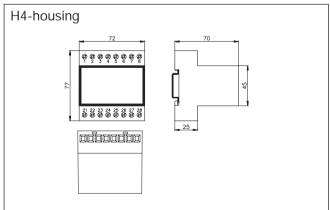
Operation Diagram



Wiring Diagram



Dimensions (mm)



Accessories

DIN-rail

FMD 411

For further information, see "Accessories".