Dupline[®] Field- and Installationbus Transmitter for Digital Signals Type G 3420 5502



Product Description

Dupline transmitter for external supply. Detects the signals from 8 devices with voltage outputs of up to 265 VAC/DC, e.g. the presence of mains supply to machinery.

- 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

CARLO GAVAZZI

G 3420 5502 024

- AC or DC power supply
- Channel coding by GAP 1605

Ordering Key



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

Inputs

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 $\begin{array}{l} 8 \text{ voltage-type} \\ 6 \text{ to } 265 \text{ VAC/DC} \\ 45 \text{ to } 400 \text{ Hz} \\ \leq 1 \text{ VAC/DC} \\ \geq 6 \text{ VAC/DC} \\ \overline{} \text{Typ. 10 mA (V_{BB} 10-18 \text{ VDC})} \\ \text{lower at other input voltages} \\ \text{Yes} \\ \leq 450 \text{ mA} \\ (\text{at V}_{BB} = 265 \text{ VDC}) \\ \leq 1 \text{ pulse train + 3 ms} \\ \leq 1 \text{ pulse train + 50 ms} \\ \leq 25 \text{ m} \end{array}$

 \geq 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%			
Frequency	024	24 VAC, ±15% 45 to 65 Hz			
Voltage interruption		$\leq 40 \text{ ms}$			
Rated operational powe Rated impulse withstan		Typ. 4.5 VA			
voltage	230	4 kV			
-	115	2.5 kV			
	024	800 V			
Dielectric voltage					
Supply - Dupline Supply - Inputs		≥ 4 kVAC (rms) ≥ 4 kVAC (rms)			
Power supply DC type		Overvoltage cat. III (IEC 60664)			
Rated operational volta	0				
through term. 21 & 22	800	10 to 30 VDC (ripple included) < 3 V			
Ripple Reverse-polarity protec	tion	≥ 3 v Yes			
Power consumption	lion	< 1 W			
Inrush current		≤ 1 A			
Rated impulse withstan	d				
voltage		800 V			
Dielectric voltage					
Supply - Dupline	≥ 200 VAC (rms)				
Supply - Inputs		\geq 4 kVAC (rms)			

Specifications are subject to change without notice



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			
Input activated	LED, red			
Dupline carrier	LED, yellow			
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

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:

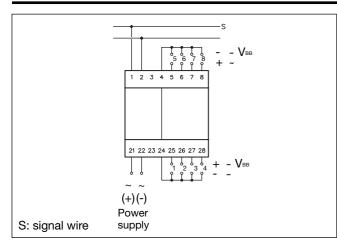
- Terminals 4 and 24 are internally connected.
- Terminals 4 and 24 are common (minus).

Input 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

Power supply				
Input 1 (term. 25)				1
Transmission on chan. for input 1				
Input 8 (term. 8)				
Transmission on channel for in	put 8			

Wiring Diagram



Accessories

DIN-rail

FMD 411

For further information, see "Accessories".