

Transmitter for Digital Signals Type GFD 1551



- 8-channel monostable transmitter
- Voltage input
- Input voltage range: 6 to 32 VDC
- D-housing
- Plug-in type module
- LED-indications for supply, input activated and Dupline® carrier
- DC power supply
- Channel coding by GAP 1605

Product Description

Dupline® transmitter for external supply. Detects the signals from 8 devices with voltage outputs up to 32 VDC, e.g. the outputs of PLCs.

Ordering Key

GFD 1551 700

Type: Dupline®
No. of channels
Input type
Power supply

Type Selection

Supply	Ordering no. 8 channels 6 to 32 VDC
10 to 30 VDC	GFD 1551 700

Supply Specifications

Power supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage through pins 3 & 9 (V_{DD} in)	10 to 30 VDC (ripple included)
Ripple	≤ 3 V
Reverse polarity protection	Yes
Rated operational current	≤ 40 mA
Inrush current	≤ 1 A
Rated impulse withstand voltage	800 V
Dielectric voltage	
Supply - Dupline®	None
Supply - Inputs	None

Input Specifications

Inputs	8 voltage-type
Input voltage range V_{BB}	6 to 32 VDC
Reverse-polarity protection	Yes
Input voltage for signal "0"	≤ 2 VDC
Input voltage for signal "1"	≥ 6 VDC
Input current for signal "1"	≤ 1 mA (at 24 VDC)
Operating time for signal "1"	≤ 1 pulse train + 10 ms
Operating time for signal "0"	≤ 1 pulse train + 10 ms
Cable length	≤ 3 m
Dielectric voltage	
Inputs - Dupline®	None

General Specifications

Power ON delay	Typ. 2 s
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")	D-housing
Weight	125 g

Mode of Operation

8-channel transmitter with 8 voltage inputs, 6 to 32 VDC.

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

When 6 to 32 VDC is applied to pin 4, GFD 1551 ... transmits on the channel coded for input 1.

When 6 to 32 VDC is applied to pin 1, transmission takes place on the channel coded for input 2.

Transmission stops in spite of activated inputs if the power supply or the Dupline® carrier is interrupted.

Notes:

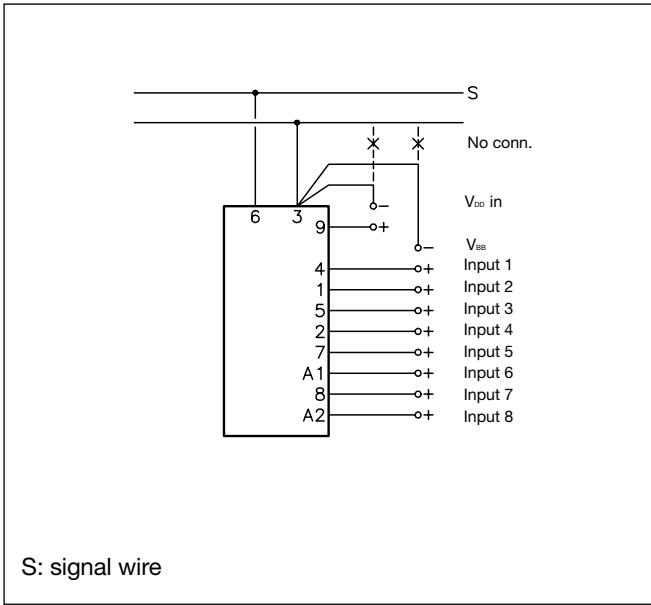
- The length of the supply-bus must not exceed 3 m in order to avoid disturbances unbalancing the Dupline®.
- The common (pin 3) must never be connected to protective ground or earth.

Pin allocation:

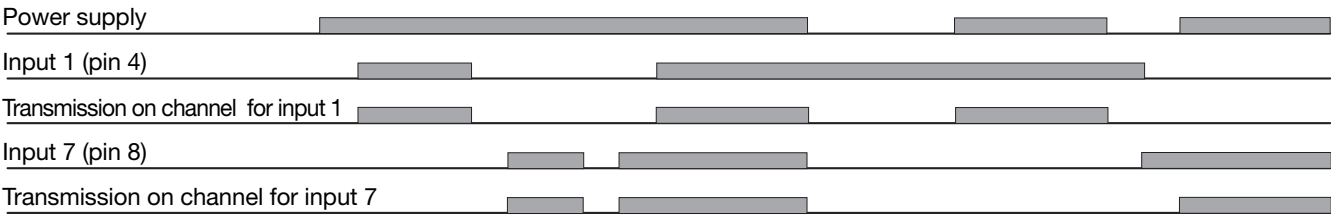
Input connections

Input 1:	pins 4
Input 2:	pins 1
Input 3:	pins 5
Input 4:	pins 2
Input 5:	pins 7
Input 6:	pins A1
Input 7:	pins 8
Input 8:	pins A2

Wiring Diagram



Operation Diagram



Accessories

Socket ◇	D 411
Socket cover	BB 5
Hold down spring ◇	HF
Front mounting bezel	FRS 2
DIN-rail for D 411	FMD 411

For further information, see "Accessories".