Transmitter for Digital Signals
Type GFD 1550

- **8-channel transmitter**
- **Contact or NPN transistor inputs**
- **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 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

GFD 1550 700

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

Type Selection

Supply	Ordering no. 8 channels Contact/NPN transistor
10 to 30 VDC	**GFD 1550 700**

Supply Specifications

Power supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage (V_{DD} in) through pins 3 & 9 700	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, contacts or NPN transistors
Open loop voltage	8 VDC
Short-circuit current	3 mA
Operating time for signal "1"	≤ 1 pulse train + 10 ms
Operating time for signal "0"	≤ 1 pulse train + 10 ms
Contact resistance	≤ 100 Ω
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 inputs for contact or NPN transistor. Each input may be coded individually by means of the code programmer GAP 1605. For details, please refer to the respective data sheet.

When pin 4 is activated, the GFD 1550 transmits on the channel coded for input 1.

When pin 1 is activated, 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:

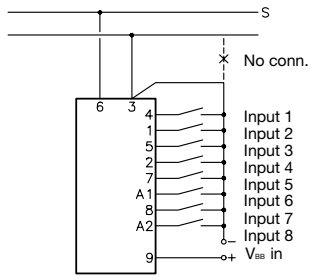
- The length of the supply-bus must not exceed 3 m in order to avoid disturbances unbalancing the Dupline®.
- The common (pin 3) must never be connected to protective ground or earth.

Pin allocation:

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

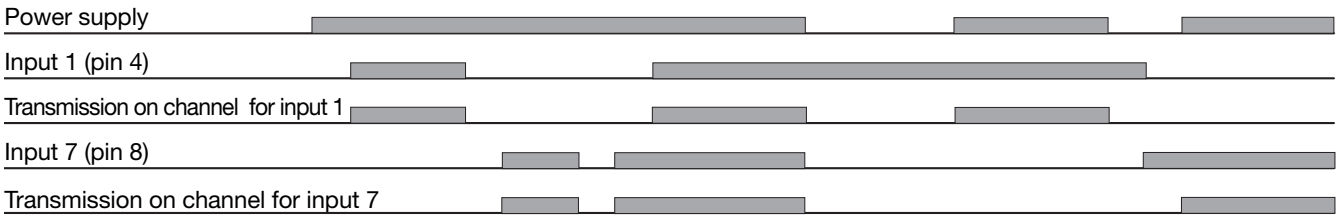
Wiring Diagram

8 channels GFD 1550
Contact input



S: signal wire

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".

Specifications are subject to change without notice (28.09.99)
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