Transmitter for Digital Signals Type G 5010 1106

Dupline®
Fieldbus *Installationbus*

- **Single channel transmitter**
- **Contact input**
- **Input pulse prolongation**
- **Codeable LED output e.g. for feedback purposes**
- **Supplied by Dupline®, no external supply required**
- **Mini-E housing**
- **Direct wall or DIN-rail mounting**
- **Channel coding by GAP 1605**

Product Description

Dupline®-powered single-channel transmitter in Mini-E housing with contact input. Especially well suited in places where no power supply is available. On the input, there is a built-in pulse-prolongation which ensures that even short input pulses are transmitted. Upon activation of the input a short charge current pulse ensures that the contacts are kept clean. On the front of the module, there is a red LED which can be coded for any Dupline® channel address for indication of channel ON status. There are only 4 terminals on the module: 2 for Dupline® and 2 for the input.

Ordering Key

G 5010 1106

Type: Dupline®
Mini-E housing
Function
No. of channels
Input type

Type Selection

Supply	Ordering No. 1 channel Contact
Supplied by Dupline®	**G 5010 1106**

Supply Specifications

Power supply	Supplied by Dupline®
Current consumption	
with LED OFF	Typ. 450 µA
with LED ON	Typ. 1.2 mA

Input Specifications

Inputs	
Open loop voltage	1 contact
	2.5 VDC
Short-circuit current	17 µA
Operating time for signal "1"	< 1 pulse train + 10 ms
Operating time for signal "0"	< 1 pulse train + 500 ms
Contact resistance	< 1 kΩ
Input pulse prolongation	min. 272 ms
Cable length	< 3 m
Dielectric voltage	
Input - Dupline®	None

General Specifications

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	49 x 22.5 x 56 mm (L x W x H)
Material	PC/ABS blend

Mode of Operation

Dupline®-powered 1-channel transmitter with contact input. There is a built-in pulse-prolongation on the input to ensure that even short input pulses are transmitted. On the front of the module there is a red LED which can be coded to indicate the status of any Dupline®-channel. The input and the LED output can be coded individually by means of the code programmer GAP 1605. For details, please refer to the respective data sheet. Please note that a special cable (GAP-TPH-CAB) is required to connect the GAP 1605 to the programming plug behind the front plate of G 5010 1106. The channel address for the input is selected under I/O-1 on the GAP 1605 and the channel address for the LED output under I/O-5.
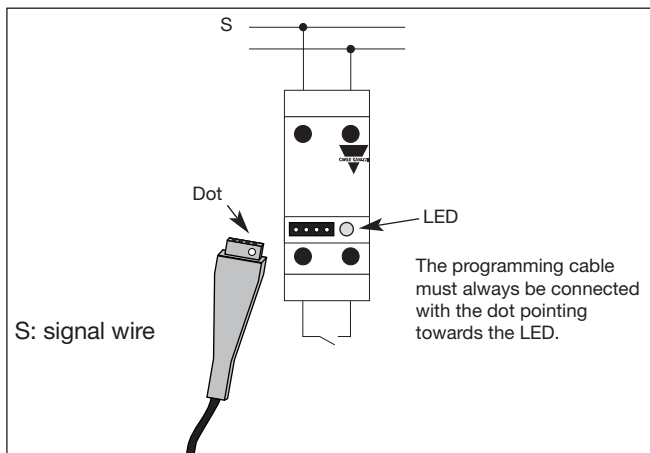
If an address is assigned to I/O-3 or I/O-4, this address will be activated continuously.

Dimensions (mm)

Mini E-housing

Accessories

Programming cable
to GAP 1605   GAP-TPH-CAB

Wiring Diagram

Dot

LED

The programming cable must always be connected with the dot pointing towards the LED.

S: signal wire