Transmitter for Digital Signals
Type G 3420 5501

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

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>No. of channels</th>
<th>Input type</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dupline®</td>
<td>8 channels</td>
<td>Contact/NPN transistor</td>
<td></td>
</tr>
</tbody>
</table>

Input Specifications

Inputs
- 8 contacts or NPN transistors
- AC version:
  - Open loop voltage
  - Short-circuit current
- DC version:
  - Open loop voltage
  - Short-circuit current
- Operating time for signal "1" Operating time for signal "0"
- Contact resistance
- Cable length
- Dielectric voltage
- Inputs - Dupline®

Supply Specifications

Power supply AC types
- Rated operational voltage
  - through term. 21 & 22 230 VAC 
  - 115 VAC
  - 024
- Frequency
- Voltage interruption
- Rated operational power
- Power dissipation
- Rated impulse withstand voltage
- Dielectric voltage
- Supply - Dupline®

Overvoltage cat. III (IEC 60664)
- 230 VAC, ±15% (IEC 60038)
- 115 VAC, ±15% (IEC 60038)
- 24 VAC, ±15%
- 45 to 65 Hz
- ≤ 40 ms
typ. 2.5 VA
- ≤ 4 W
- 4 kV
- 2.5 kV
- 800 V
- ≥ 4 kVAC (rms)

Supply - Inputs
- ≥ 4 kVAC (rms)

Power supply DC types
- Rated operational voltage
- Ripple
- Reverse-polarity protection
- Rated operational current
- Power dissipation
- Inrush current
- Rated impulse withstand voltage
- Dielectric voltage
- Supply - Dupline®
- Supply - Inputs
- ≥ 4 kVAC (rms)

Overvoltage cat. III (IEC 60664)
- 10 to 30 VDC (ripple included)
- ≤ 3 V
- yes
- ≤ 100 mA
- ≤ 3.5 W
- ≤ 1 A
- 800 V
- ≥ 200 VAC (rms)

None

Specifications are subject to change without notice (30.04.03)
Dupline® is a registered trademark. A product of the CARLO GAVAZZI Group
General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ON delay</td>
<td>typ. 2 s</td>
</tr>
<tr>
<td>Indication for</td>
<td></td>
</tr>
<tr>
<td>Supply ON</td>
<td>LED, green</td>
</tr>
<tr>
<td>Input activated</td>
<td>LED, red</td>
</tr>
<tr>
<td>Dupline® carrier</td>
<td>LED, yellow</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>grade 3 (IEC 60664)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20° to +50°C (-4° to +122°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-50° to +85°C (-50° to +185°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>20 to 80%</td>
</tr>
<tr>
<td>Mechanical resistance</td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td>15 G (11 ms)</td>
</tr>
<tr>
<td>Vibration</td>
<td>2 G (6 to 55 Hz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>H4-Housing</td>
</tr>
<tr>
<td>Weight</td>
<td>250 g</td>
</tr>
</tbody>
</table>

Mode of Operation

8-channel transmitter with 8 inputs for contacts or NPN transistors. An external power supply is not required. Each input may be coded individually by means of the code programmer GAP 1605. For details, please refer to the respective data sheet.

Whenever the contact of the input is opened, the transmitter stops transmitting on the respective channel.

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

Operation Diagram

<table>
<thead>
<tr>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input 1 (term. 25)</td>
</tr>
<tr>
<td>Transmission on chan. for input 1</td>
</tr>
<tr>
<td>Input 8 (term. 8)</td>
</tr>
<tr>
<td>Transmission on channel for input 8</td>
</tr>
</tbody>
</table>

Wiring Diagrams

8 channels G 3420 5501 ...
Contact input

S: signal wire

8 channels G 3420 5501 ...
NPN transistor input

S: signal wire
### Dimensions (mm)

<table>
<thead>
<tr>
<th>H4-housing</th>
</tr>
</thead>
</table>

### Accessories

For further information, see "Accessories".