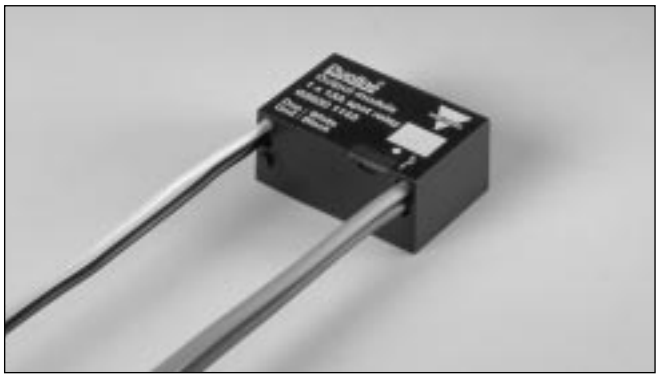
# Decentral Receiver for Digital Signals
# Type G 8830 1143

Dupline®
Fieldbus Installationbus



- **1-channel receiver in compact enclosure**
- **1-relay output**
- **Load: 13 A/250 VAC**
- **Supplied by Dupline®**
- **Channel coding by GAP 1605**

## Product Description

The Dupline® decentral receiver has a build-in SPST relay for control of a load of up to 13 A/250 VAC. The module is especially designed for the use in building automation applications where it allows a flexible installation concept featuring a separate power and signal (control) bus. The compact size of the module makes it possible to fit it in a junction box or directly behind a power outlet.

## Ordering Key

**G 8830 1143**

**Type: Dupline®**
**Housing**
**Receiver**
**No. of channels**
**Output type**

## Type Selection

| **Ordering no.** | |
|---|---|
| **1 channel** | |
| **13 A/250 VAC** | |
| **G 8830 1143** | |

## Output Specifications

| | |
|---|---|
| **Output** | 1 SPST relay |
| Contact ratings ($AgSnO_2$) | µ (micro gap) |
| Resistive load AC 1 | 13 A/250 VAC |
| Minimum load (recommended) | 100 mA/12 V |
| Lifetime | see table to the right |
| **Operating frequency** | ≤ 60 operations/minute |
| **Response time** | 1 pulse train |

### Relay data

| Load | Test conditions | Typical number of operations |
|---|---|---|
| 250 V, 12 A, cos φ =1 | 1800/h, 50% DC, +70°C | $1.0 \times 10^5$ |
| 250 V, 8 A, cos φ =1 | 1800/h, 50% DC, +70°C | $3.5 \times 10^5$ |
| 250 V, 4 A, cos φ =1 | 1800/h, 50% DC, +70°C | $5.0 \times 10^5$ |
| 250 V, 3 A, cos φ =1 | 1800/h, 50% DC, +70°C | $7.5 \times 10^5$ |
| 230 V, 550 W filament lamps $I_{in} \leq 40\ A_{peak}$ $I_{off} = 2.5$ A | 60/h, 8% DC, +22°C | $2.0 \times 10^5$ |
| 230 V, 1000 W filament lamps $I_{in} \leq 71.5\ A_{peak}$ $I_{off} = 4.5$ A | 60/h, 8% DC, +25°C | $7.0 \times 10^4$ |
| 230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 µF | 360/h, 50% DC, +25°C | $1.0 \times 10^4$ |
| 230 V, compressor $I_{in} \leq 21\ A_{peak}$ $I_{off}$ =3.5 A cos φ = 0.5 | 500/h, 20% DC, +25°C | $1.7 \times 10^5$ |
| 250 V, 8 A, cos φ = 0.3 | 360/h, 50% DC, +25°C | $1.0 \times 10^5$ |

## Supply Specifications

| | |
|---|---|
| **Supplied by Dupline®** | |
| Normal consumption | ≤ 1,1 mA |
| Charge consumption | ≤ 3,1 mA (for max 1 s after relay state change) |
| Power-on delay | Typ. 2 s |
| Power-off delay | ≤ 1 s |

## Insulation Voltage

| | |
|---|---|
| **Live parts - Dupline®** | 4 kVAC rms (6 mm) |
| **Enclosure - Live parts** | 2 kVAC rms (3 mm) |
| **Enclosure - Dupline®** | 2 kVAC rms (3 mm) |

## General Specifications

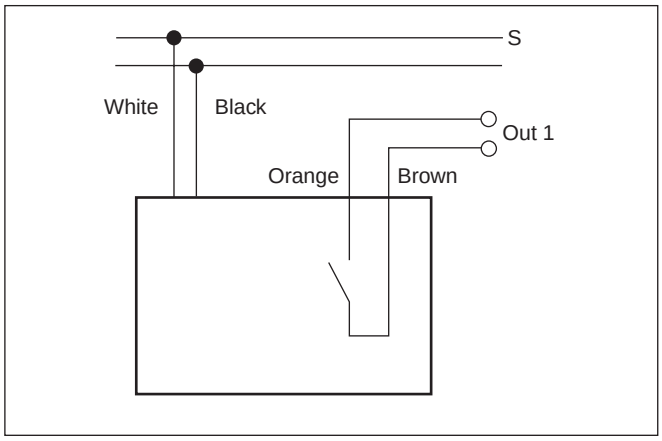
| | |
|---|---|
| **Environment** | |
| Pollution degree | 3 (IEC 60664) |
| Operation temperature | -20° to +50°C (-4° to 122°F) |
| Storage temperature | -50° to +85°C (-58° to 185°F) |
| **Humidity** (non-condensing) | 20 to 80% |
| **Housing** | |
| Material | Noryl GFN 1, black |
| Dimensions (h x w x d) | 26 x 39 x 17 mm |

## Mode of Operation

The output address and fail-polarity may be coded by means of the code programmer GAP 1605, with GAP-THP-CAB cable.

Upon loss of Dupline® carrier the output goes to the predefined fail-polarity.

## Wiring Diagrams




## Wire Connections

| | |
|---|---|
| **Bus:** | White = Dupline® signal<br>Black = Dupline® GND |
| **Output:** | Brown = Relay contact-set<br>Orange = Relay contact-set |
| **Bus wires:** | 2 x 0,75 mm², 250 V isolation, single core, 150 mm |
| **Output wires:** | 2 x 1,5 mm² , 250 V isolation, single core, 150 mm |

## Dimensions