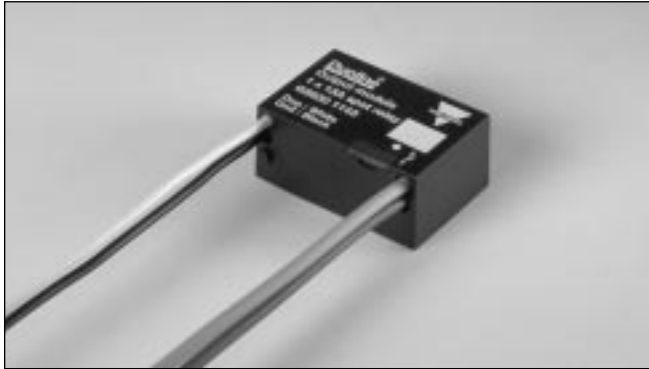


# Decentral Receiver for Digital Signals Type G 8830 1143



- 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 built-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

<b>Output</b>	1 SPST relay
Contact ratings (AgSnO <sub>2</sub> )	μ (micro gap)
Resistive load AC 1	13 A/250 VAC
Minimum load (recommended)	100 mA/12 V
Lifetime	see table to the right
<b>Operating frequency</b>	≤ 60 operations/minute
<b>Response time</b>	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 x 10 <sup>5</sup>
250 V, 8 A, cos φ = 1	1800/h, 50% DC, +70°C	3.5 x 10 <sup>5</sup>
250 V, 4 A, cos φ = 1	1800/h, 50% DC, +70°C	5.0 x 10 <sup>5</sup>
250 V, 3 A, cos φ = 1	1800/h, 50% DC, +70°C	7.5 x 10 <sup>5</sup>
230 V, 550 W filament lamps <i>I<sub>in</sub></i> ≤ 40 A <sub>peak</sub> <i>I<sub>off</sub></i> = 2.5 A	60/h, 8% DC, +22°C	2.0 x 10 <sup>5</sup>
230 V, 1000 W filament lamps <i>I<sub>in</sub></i> ≤ 71.5 A <sub>peak</sub> <i>I<sub>off</sub></i> = 4.5 A	60/h, 8% DC, +25°C	7.0 x 10 <sup>4</sup>
230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 μF	360/h, 50% DC, +25°C	1.0 x 10 <sup>4</sup>
230 V, compressor <i>I<sub>in</sub></i> ≤ 21 A <sub>peak</sub> <i>I<sub>off</sub></i> = 3.5 A cos φ = 0.5	500/h, 20% DC, +25°C	1.7 x 10 <sup>5</sup>
250 V, 8 A, cos φ = 0.3	360/h, 50% DC, +25°C	1.0 x 10 <sup>5</sup>

## Supply Specifications

<b>Supplied by Dupline<sup>®</sup></b>	
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

<b>Live parts - Dupline<sup>®</sup></b>	4 kVAC rms (6 mm)
<b>Enclosure - Live parts</b>	2 kVAC rms (3 mm)
<b>Enclosure - Dupline<sup>®</sup></b>	2 kVAC rms (3 mm)

## General Specifications

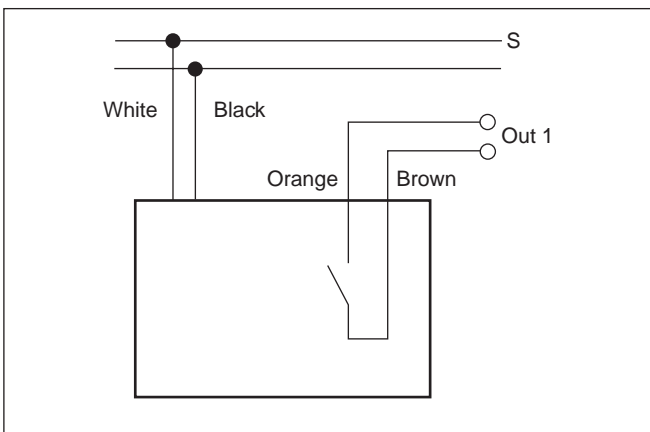
<b>Environment</b>	
Pollution degree	3 (IEC 60664)
Operation temperature	-20° to +50°C (-4° to 122°F)
Storage temperature	-50° to +85°C (-58° to 185°F)
<b>Humidity (non-condensing)</b>	20 to 80%
<b>Housing</b>	
Material	Noryl GFN 1, black
Dimensions (h x w x d)	26 x 39 x 17 mm

## 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<sup>®</sup> carrier the output goes to the predefined fail-polarity.

## Wiring Diagrams



## Wire Connections

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

## Dimensions

