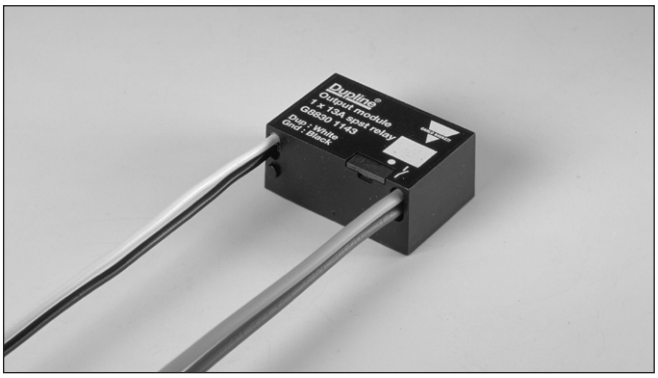
Remote Relay Output
Type G 8830 1143

Dupline®
Fieldbus Installationbus



- **Small sized single relay output**
- **Load: 13 A/250 VAC**
- **Withstands 130A inrush current**
- **Powered via Dupline®**
- **Address 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

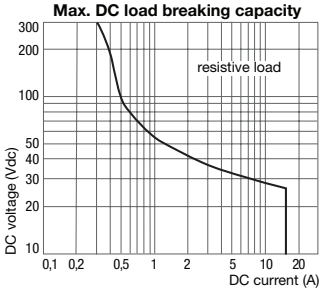
Output Specifications

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 VDC

Supply	**Max. current (A)**
250 VDC	350 mA
100 VDC	500 mA
50 VDC	1,1 Amp
24 VDC	13 Amp

Max. DC load breaking capacity



Relay data VAC

Load	**Typical number of operations**
250 V, 12 A, cos φ =1	1.0×10^5
250 V, 8 A, cos φ =1	3.5×10^5
250 V, 4 A, cos φ =1	5.0×10^5
250 V, 3 A, cos φ =1	7.5×10^5
230 V, 550 W filament lamps $I_{in} \leq 40\ A_{peak}$ $I_{off} = 2.5$ A	2.0×10^5
230 V, 1000 W filament lamps $I_{in} \leq 71.5\ A_{peak}$ $I_{off} = 4.5$ A	7.0×10^4
230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 µF	1.0×10^4
230 V, compressor $I_{in} \leq 21\ A_{peak}$ $I_{off} = 3.5$ A cos φ = 0.5	1.7×10^5
250 V, 8 A, cos φ = 0.3	1.0×10^5

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
Power dissipation at max. load	0.7 W

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

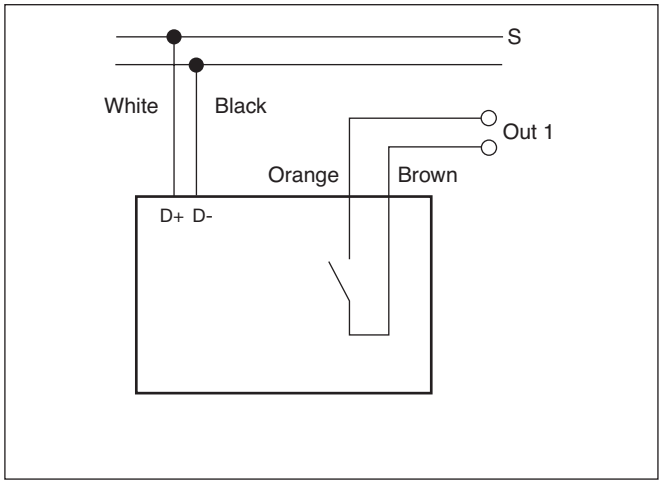
Fail-safe mode	In case of interruption of the Dupline® connection, the channel will be forced into a specific optional status as either active high or active low.
Environment	
Pollution degree	3 (IEC 60664)
Operation temperature	-20° to +50°C (-4° to 122°F)
Storage temperature	-50° to +85°C (-58° to 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

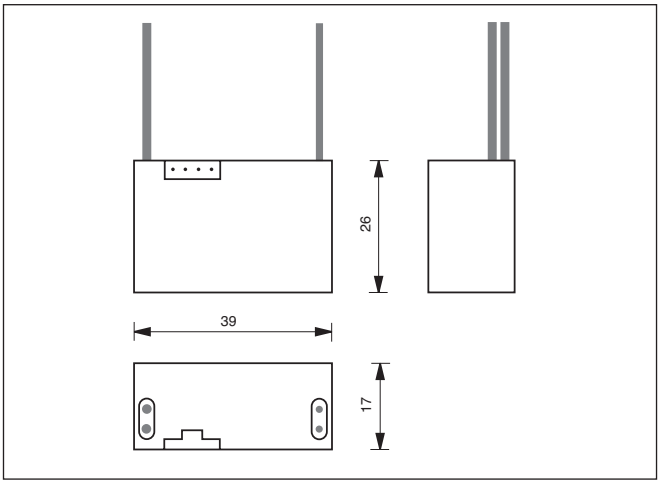
The output address and fail-polarity may be coded by means of the code programmer GAP 1605, with GAP-THP-CAB cable.

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

Wiring Diagrams



Dimensions



Wire Connections

Bus:	White = Dupline® signal, D+ Black = Dupline® negative, D-
Output:	Brown = Relay contact set 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

Accessories

Programming cable to GAP 1605	GAP-TPH-CAB

Mouser Electronics

Authorized Distributor

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