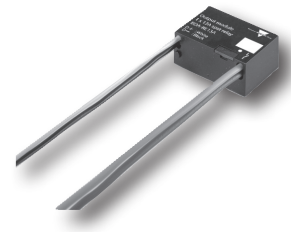


Remote Relay Output

BDA-RE13A

CARLO GAVAZZI



Small sized single relay output

Load: 13 A/250 VAC

Withstands 130 A inrush current

Powered via smart-house

Address coding by BGP-COD-BAT

Delivered with pre-programmed address on I/O 1

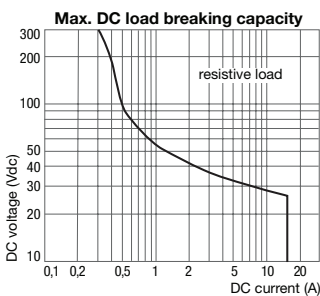
OUTPUT SPECIFICATIONS

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



Relay data VAC

Load	Typical number of operations
250 V, 12 A, cos φ = 1	1.0 x 10 ⁵
250 V, 8 A, cos φ = 1	3.5 x 10 ⁵
250 V, 4 A, cos φ = 1	5.0 x 10 ⁵
250 V, 3 A, cos φ = 1	7.5 x 10 ⁵
230 V, 550 W filament lamps lin ≤ 40 Apeak loff = 2.5 A	2.0 x 10 ⁵
230 V, 1000 W filament lamps lin ≤ 71.5 Apeak loff = 4.5 A	7.0 x 10 ⁴
230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 μF	1.0 x 10 ⁴
230 V, compressor lin ≤ 21 Apeak loff = 3.5 A cos φ = 0.5	1.7 x 10 ⁵
250 V, 8 A, cos φ = 0.3	1.0 x 10 ⁵

GENERAL SPECIFICATIONS

Channel programming	BGP-COD-BAT
Channel assignment	one channel freely programmable
Fail-safe mode	In case of interruption of the smart-house 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

SUPPLY SPECIFICATIONS

Supplied by smart-house bus	
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 - smart-house	4 kVAC rms (6 mm)
Enclosure - Live parts	2 kVAC rms (3 mm)
Enclosure - smart-house	2 kVAC rms (3 mm)

Remote Relay Output



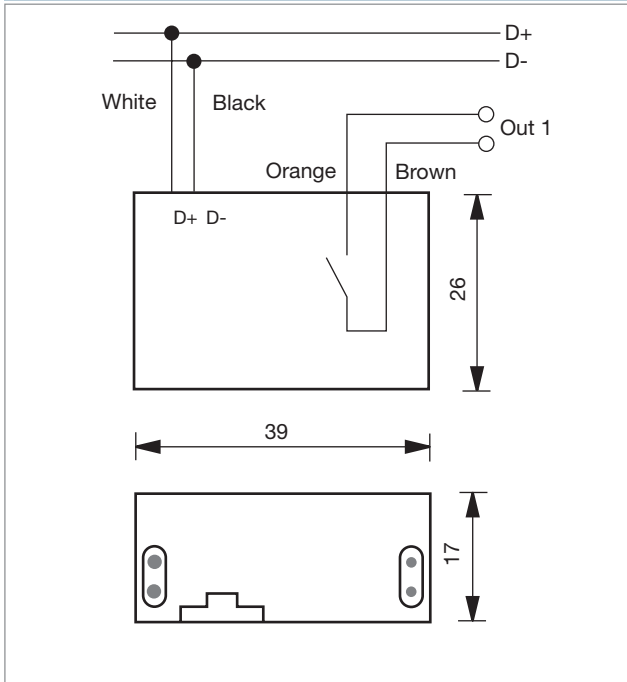
MODE OF OPERATION

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

Upon loss of smart-house carrier the output goes to the predefined fail-polarity.

Note: At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and smart-house and transmit on channels A1-4 once.

WIRING DIAGRAM / DIMENSIONS



TYPE SELECTION

Supply
13A/250 VAC

Ordering no.
BDA-RE13A

WIRE CONNECTIONS

Bus:	White = smart-house signal, D+
	Black = smart-house negative, D-
Output:	Brown = Relay contact set
	Orange = Relay contact set
Bus wires:	2 x 0,75 mm ² , 250 V isolation, single core, 150 mm
Output wires:	2 x 1,5 mm ² , 250 V isolation, single core, 150 mm

ACCESSORIES

**Programming cable
to BGP-COD-BAT**

GAP-TPH-CAB