Smart Dupline®
Remote Relay Output
Type BDA-RE13A-U

CARLO GAVAZZI
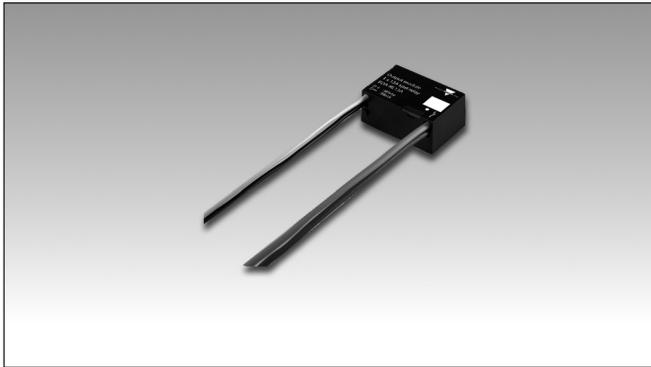
- **Small sized single relay output**
- **Load: 13A / 250VAC**
- **Withstands 130A inrush current**
- **Bus supplied**

Product Description

The BDA-RE13A-U is a module with a single relay output. It is part of the smart-house concept and can be used with all the functions supported by the smart-house controller.

When an activation command is received from the Dupline® bus, the output turns ON and remains ON until an OFF command is received.

Ordering Key

BDA RE 13A U

Decentral module ———————
Relay module ———————
Resistive load ———————
Smart Dupline® ———————
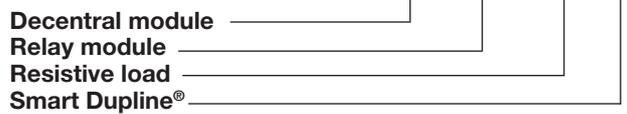
Type Selection

Relay max. Load	Relay Output	Bus supplied
13A	1 SPST relay	**BDA-RE13A-U**

Output Specifications

Output Contact ratings (AgSnO2)	1 SPST relay μ (micro gap)
Resistive load AC 1	13 A/250 VAC
Minimum load (recommended)	100mA/12 V

Lifetime	See table to the right
Operating frequency	≤60 operations/minute

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	**Typ. N. of Operations**
250 V, 12A, cos $\varphi=1$	1.0×10^5
250 V, 8A, cos $\varphi=1$	3.5×10^5
250 V, 4A, cos $\varphi=1$	5.0×10^5
250 V, 3A, cos $\varphi=1$	7.5×10^5
230 V, 550 W filament lamps Iin ≤ 40 Apeak Ioff = 2.5 A	2.0×10^5
230 V, 1000 W filament lamps Iin ≤ 71.5 Apeak Ioff = 4.5 A	7.0×10^4
230 V, 900 W fluorescent tubes (25 x 36W) parallel compensated, 30 μF	1.0×10^4
230 V, compressor Iin ≤ 21 Apeak Ioff = 3.5 A cos φ = 0.5	1.7×10^5
250V, 8A, cos φ = 0.3	1.0×10^5

Max. DC load breaking capacity

resistive load

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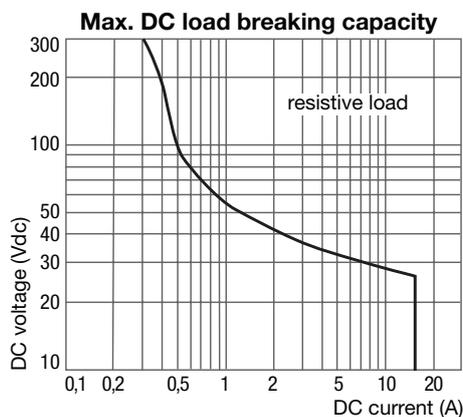
Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Normal Dupline® current	1 mA
Maximum Dupline® current	3.1 mA (for max 1 s after relay state change)

Supply Specifications

Power supply	Supplied by bus

Dielectric Strength

Live parts - bus	4 kVAC rms (6 mm)
Enclosure - live parts	2 kVAC rms (3 mm)
Enclosure - bus	2 kVAC rms (3 mm)

General Specifications

Address assignments / channel programming	If it is used with the Sx2WEB24 the address

General Specs (cont.)

	assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the Sx tool. If it used with the BH8-CTRLX-230, the channels have to be programmed by the BGP-COD-BAT
Environment	
Pollution degree	3 (IEC 60664)
Operating 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% RH
Housing	
Material	NORYL GFN 1, black
Dimensions (h x w x d)	26 x 39 x 17 mm
Approvals	cULus, according to UL60950
UL notes:	
	Max room temperature: 40°C
CE Marking	Yes

Mode of Operation

The BDA-RE13A-U is fully programmable via the Sx tool: the output can be individually associated to one of the functions supported by the smart-house system.
Due to its construction with bistable relays, the module is intended for lighting control only.

BDA-RE13A-U connected to the Sx2WEB24 Coding/Addressing
If the output module is connected to the Sx2WEB24 controller, no addressing is needed since the module is provided with a specific identification number (SIN): the user has only to insert the SIN number in the Sx tool when creating the system configuration.
Used channels: 1 output channel.

BDA-RE13A-U connected to the BH8-CTRLX-230 Coding/Addressing
If the input module is connected to the BH8-CTRLX-230 controller, the user has to program the Dupline channels using the BGP-COD-BAT: this module has 1 output channel, pre-programmed on channel A1.

Wiring Diagrams / Dimensions
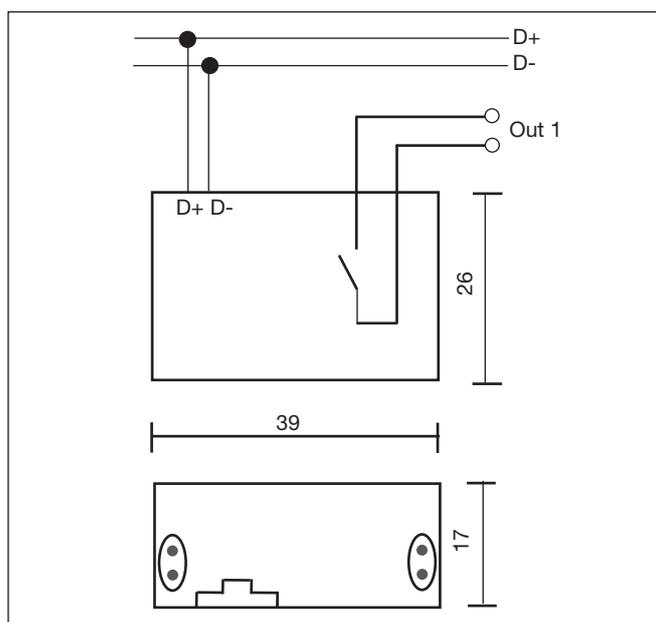
Wire Connections

Bus	Green = bus signal, D+ Blue = bus negative, D-
Output	Orange = 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