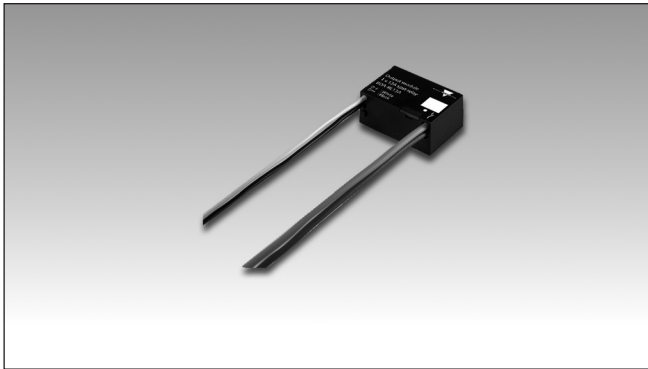


Smart Dupline® Remote Relay Output Type BDA-RE13A-U



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

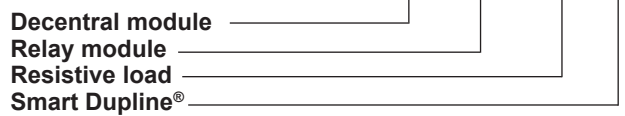
Product Description

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



Type Selection

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

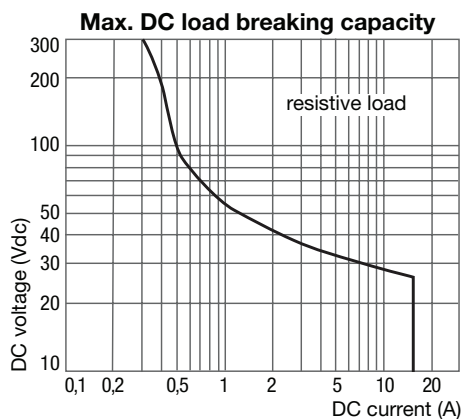
Output Specifications

Output	1 SPST relay
Contact ratings (AgSnO ₂)	μ (micro gap)
Resistive load	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 φ=1	1.0 x 10 ⁵
250 V, 8A, cos φ=1	3.5 x 10 ⁵
250 V, 4A, cos φ=1	5.0 x 10 ⁵
250 V, 3A, cos φ=1	7.5 x 10 ⁵
230 V, 550 W filament lamps I _{in} ≤ 40 A _{peak} I _{off} = 2.5 A	2.0 x 10 ⁵
230 V, 1000 W filament lamps I _{in} ≤ 71.5 A _{peak} I _{off} = 4.5 A	7.0 x 10 ⁴
230 V, 900 W fluorescent tubes (25 x 36W) parallel compensated, 30 μF	1.0 x 10 ⁴
230 V, compressor I _{in} ≤ 21 A _{peak} I _{off} = 3.5 A cos φ = 0.5	1.7 x 10 ⁵
250V, 8A, cos φ = 0.3	1.0 x 10 ⁵





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
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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 UWP 3.0 the address assignment
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Mode of Operation

The BDA-RE13A-U is fully programmable via the UWP 3.0 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 UWP 3.0 Coding/Addressing
If the output module is connected to the UWP 3.0 controller, no addressing is needed since the module is provided with a specific identification number (SIN): the

General Specs (cont.)

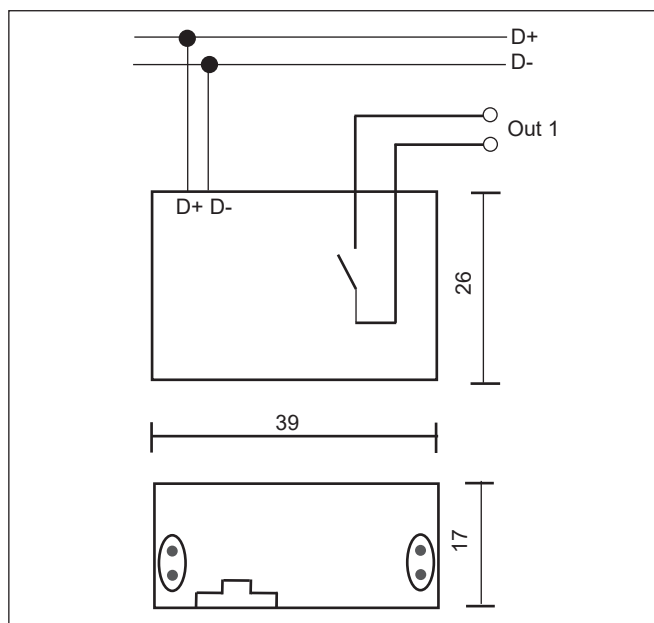
	is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the UWP 3.0 tool. If it used with the BH8-CTRLX-230, the channels have to be programmed by the BGP-COD-BAT
Environment	
Pollution degree	3 (IEC 60664)
Operating temperature	-20° 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

user has only to insert the SIN number in the UWP 3.0 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 mm ² , 250 V isolation, single core, 150 mm
Output wires	2 x 1.5 mm ² , 250 V isolation, single core, 150 mm

Note: at the first connection, the initial position of the relay is not defined at delivery. The relay will be controlled properly only after the first command received via Dupline bus.