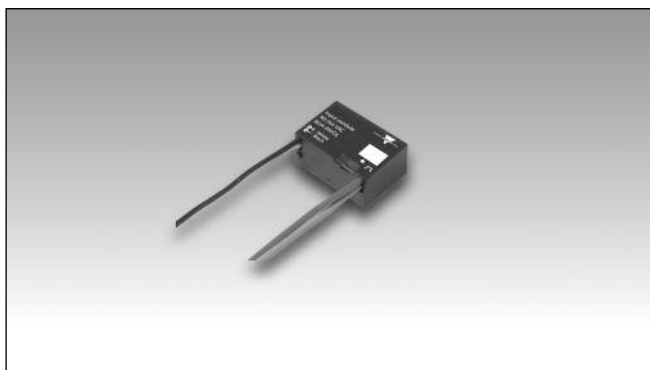


Smart Dupline® Remote Voltage Input Type BDA-INVOL-U

CARLO GAVAZZI



- Input voltage module for building automation
- 1 opto-isolated voltage input 90 to 265 VAC
- Powered via Dupline® bus
- Compact housing

Product Description

BDA-INVOL-U is an opto-isolated voltage input for 90 to 265 VAC.

It is suitable in all those applications where there is the need to detect a voltage higher than 90Vac.

This voltage input module is

part of the smart-house concept for building automation applications and can be used in all the functions supported by the smart-house controller.

It is fully programmable via the SH tool.

Type Selection

Voltage input	Bus Supplied
90 to 265 VAC	BDA-INVOL-U

Input Specifications

Inputs	90 to 265 VAC
ON	≥ 90 VAC
OFF	≤ 60 VAC
Dielectric voltage	
Input - Dupline®	≥ 4 kVAC (rms)

Supply Specifications

Power supply	Supplied by Dupline® bus
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General Specifications

Address assignments / channel programming	If it is used with the SH2WEB24 the address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the SH tool. If it is used with the BH8-CTRLX-230, the channels have to be programmed by the BGP-COD-BAT.	Environment	
		Degree of Protection	IP 20
		Pollution degree	3 (IEC 60664)
		Operating temperature	-20° to +50°C (-4° to 122°F)
		Storage temperature	-50° to +70°C (-58° to 158°F)
		Humidity (non-condensing)	20 to 80% RH
		Housing	
		Dimensions	39 x 26 x 17 mm
		Material	Noryl GFN 1, Black
		Weight	15 g
		CE Marking	Yes

Ordering Key

BDA INVOL U

Decentral module _____
Input _____
Voltage _____
Smart Dupline® _____



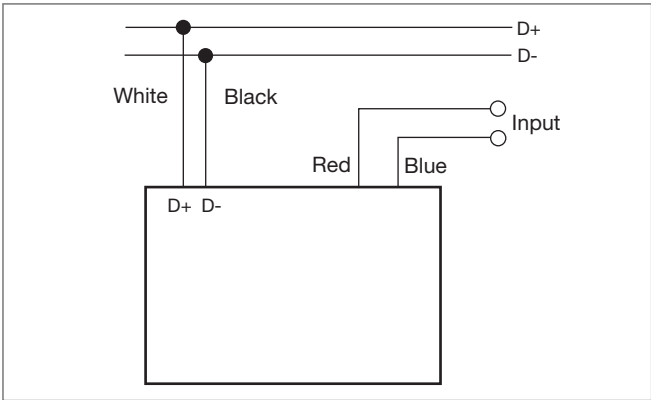
General Specifications (cont.)

EMC Immunity <ul style="list-style-type: none">- Electrostatic discharge- Radiated radiofrequency- Burst immunity- Surge- Conducted radio frequency- Power frequency magnetic fields- Voltage dips, variations, interruptions	EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11	EMC (cont.) Emission <ul style="list-style-type: none">- Conducted and radiated emissions- Conducted emissions- Radiated emissions	EN 61000-6-3 CISPR 22 (EN55022), cl. B CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)
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Mode of Operation

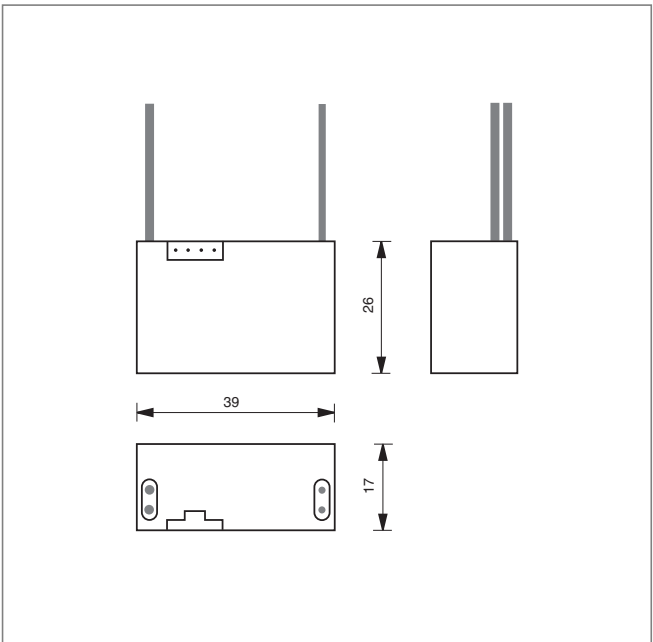
The BDA-INVOL-U is fully programmable via the SH tool: the input can be individually associated to one or more functions supported by the smart-house system.	BDA-INVOL-U connected to the SH2WEB24 Coding/Addressing If the input module is connected to the SH2WEB24 controller, no addressing is needed since the module is provided with a specific identification number (SIN): the user has only to insert	the SIN in the SH tool when creating the system configuration. This module has 1 input channel.	BDA-INVOL-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 input channel.
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Wiring Diagrams



- Bus:** White = Dupline® signal, D+
Black = Dupline® negative, D-
- Input:** Red = Voltage input
Blue = Voltage input
- Bus wires:** 2 x 0,75 mm²,
250 V isolation, single core, 150 mm
- Input wires:** 2 x 1,5 mm² ,
250 V isolation, single core, 150 mm

Dimensions (mm)



Mouser Electronics

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