

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

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

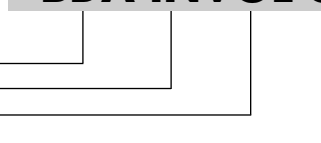
## Product Description

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.

## Ordering Key **BDA INVOL U**

Decentral module  
Input  
Voltage  
Smart Dupline®



## 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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## Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	1.4 mA

## 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 Pollution degree Operating temperature Storage temperature Humidity (non-condensing)	IP 20 3 (IEC 60664) -20° to +50°C (-4° to 122°F) -50° to +70°C (-58° to 158°F) 20 to 80% RH
		Housing	Dimensions Material	39 x 26 x 17 mm Noryl GFN 1, Black
		Weight		15 g
		CE Marking		Yes

## General Specifications (cont.)

EMC	EN 61000-6-2	EMC (cont.)	EN 61000-6-3
Immunity	EN 61000-4-2	Emission	CISPR 22 (EN55022), cl. B
- Electrostatic discharge	EN 61000-4-3	- Conducted and radiated emissions	CISPR 16-2-1 (EN55016-2-1)
- Radiated radiofrequency	EN 61000-4-4	- Conducted emissions	CISPR 16-2-3 (EN55016-2-3)
- Burst immunity	EN 61000-4-5	- Radiated emissions	
- Surge	EN 61000-4-6		
- Conducted radio frequency	EN 61000-4-8		
- Power frequency magnetic fields	EN 61000-4-11		
- Voltage dips, variations, interruptions			

## 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

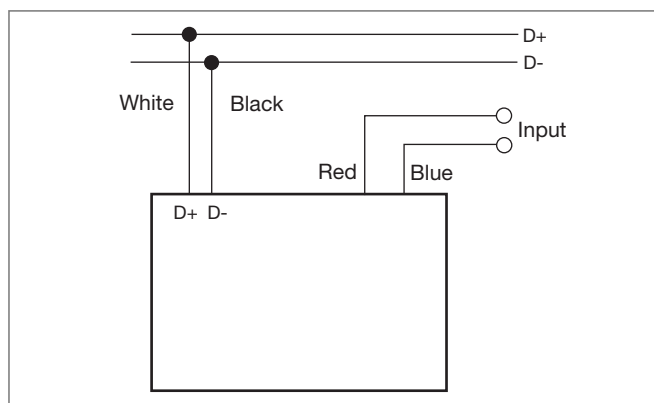
If the input module is connected to the SH2WEB24 controller, no addressing is needed since the module is provided with a specific identification number (SIN): the user has only to insert

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.

## Wiring Diagrams



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

## Dimensions (mm)

