

# Smart Dupline® Input/Output Module Type BDB-IOCP8x-U

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- Light switch for building automation application
- 4 contact inputs for pushbuttons
- 4 contact outputs for LED with voltage up to 8.0 V
- Input pulse prolongation
- Compact housing
- Bus supplied
- Low current consumption

## Product Description

The BDB-IOCP8 is an input/output module to be connected to PNP transistor outputs and contact inputs. It offers a flexible installation concept to integrate a smart-house system with already existing light

switch/push buttons in building automation installations. It is part of the smart-house concept and can be used with all the functions supported by the smart-house controller.

## Ordering Key **BDB IOCP8 A U**

Decentral module \_\_\_\_\_  
 Input \_\_\_\_\_  
 Output \_\_\_\_\_  
 Connection \_\_\_\_\_  
 PNP \_\_\_\_\_  
 Number of inputs and outputs \_\_\_\_\_  
 8.0 V output voltage \_\_\_\_\_  
 Smart Dupline® \_\_\_\_\_

## Type Selection

Input	Outputs	Output voltage	Bus supplied
4	4 PNP	3.3 V	BDB-IOCP8-U
4	4 PNP	8.0 V	BDB-IOCP8A-U

## Input Specifications

<b>Inputs</b>	4 contacts
Input current, each channel	0.1 mA
Input pulse prolongation	min. 272 ms
Cable length	≤ 0.2 m
<b>Dielectric voltage</b>	
Inputs - Dupline®	None

## Output Specifications

<b>Outputs</b>	4 PNP
<b>Load, each channel</b>	Max. 1.5 mA
<b>Output voltage</b>	
	IOCP8 3.3 V
	IOCP8A 8.0 V
<b>Cable length</b>	≤ 0.2 m

## Dupline® Specifications

<b>Voltage</b>	8.2 V
<b>Maximum Dupline® voltage</b>	10 V
<b>Minimum Dupline® voltage</b>	5.5 V
<b>Maximum Dupline® current</b>	10 mA

## Supply Specifications

<b>Power supply</b>	Supplied by Dupline® bus
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## General Specifications

<b>Address assignments / channel programming</b>	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-CTRL-230, the channels have to be programmed by the BGP-COD-BAT.	<b>Weight</b>	15 g
<b>Environment</b> Operating temperature Storage temperature Humidity (non-condensing)	0° to +50°C (+32° to 122°F) -20° to +70°C (-4° to 158°F) 20 to 80% RH	<b>Approvals</b>	cULus, according to UL60950
<b>Connection</b> Max. size of wire in Dupline® terminals	1.5 mm <sup>2</sup>	<b>CE Marking</b>	Yes
<b>Housing</b> Dimensions (h x w x d) Material	28 x 28 x 10 mm Noryl GFN 1, Black	<b>EMC</b>	<b>Immunity</b> - Electrostatic discharge EN 61000-6-2 - Radiated radiofrequency EN 61000-4-3 - Burst immunity EN 61000-4-4 - Surge EN 61000-4-5 - Conducted radio frequency EN 61000-4-6 - Power frequency magnetic fields EN 61000-4-8 - Voltage dips, variations, interruptions EN 61000-4-11 <b>Emission</b> - Conducted and radiated emissions EN 61000-6-3 - Conducted emissions CISPR 22 (EN55022), cl. B - Radiated emissions CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)

## Mode of Operation

The BDB-IOCP8x-U is fully programmable via the SH tool: each input and each output can be individually associated to one or more functions supported by the smart-house system.

### BDB-IOCP8x-U connected to the SH2WEB24

**Coding/Addressing**  
If the input/output 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 number in the SH tool when creating the system configuration. Used channels: 4 input channels, 4 output channels.

### BDB-IOCP8x-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 4 input and 4 output channels.

## Wiring Diagrams

