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

CARLO GAVAZZI

- 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

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

Output Specifications

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

Dupline® Specifications

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

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-CTRL-230, the channels have to be programmed by the BGP-COD-BAT.	**Weight**	15 g
		Approvals	cULus, according to UL60950
		CE Marking	Yes
		EMC	
		Immunity	EN 61000-6-2
		- Electrostatic discharge	EN 61000-4-2
		- 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
Environment		- Voltage dips, variations, interruptions	EN 61000-4-11
Operating temperature	0° to +50°C (+32° to 122°F)	Emission	EN 61000-6-3
Storage temperature	-20° to +70°C (-4° to 158°F)	- Conducted and radiated emissions	CISPR 22 (EN55022), cl. B
Humidity (non-condensing)	20 to 80% RH	- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
Connection		- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
Max. size of wire in Dupline® terminals	1.5 mm²		
Housing			
Dimensions (h x w x d)	28 x 28 x 10 mm		
Material	Noryl GFN 1, Black		

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.
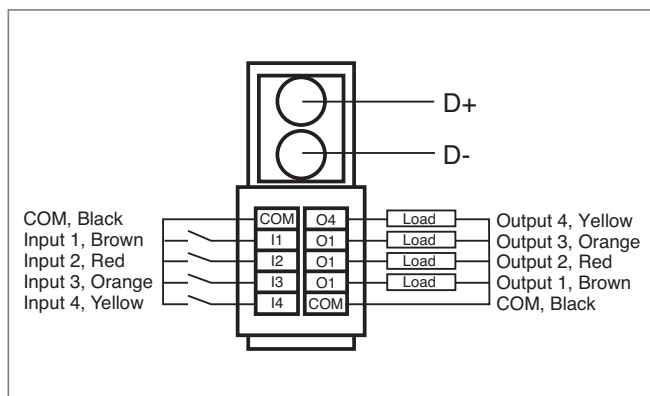Used channels: 4 input channels, 4 output channels.

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

COM, Black
Input 1, Brown
Input 2, Red
Input 3, Orange
Input 4, Yellow

COM	O4	Load	Output 4, Yellow
I1	O1	Load	Output 3, Orange
I2	O1	Load	Output 2, Red
I3	O1	Load	Output 1, Brown
I4	COM		COM, Black

D+
D-

Specifications are subject to change without notice (17.12.2013)

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