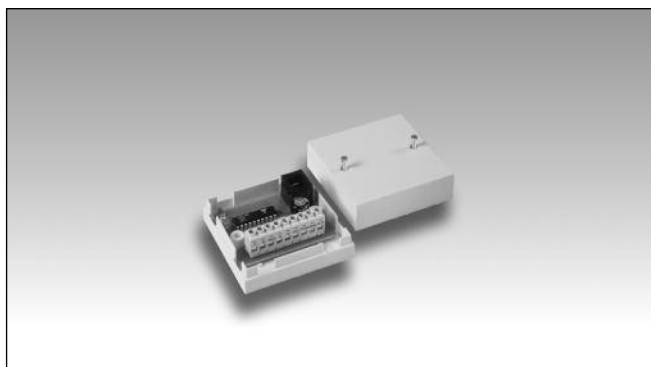


Smart Dupline® Input Module Type BDD-INCON4-U

CARLO GAVAZZI



- Input module for building automation applications
- 4-contact or NPN transistor inputs
- LED indications for supply and Dupline® bus
- Red LED: programmable function status
- 3-wire system with Dupline® and supply of module through external power supply
- Open PCB with terminal connection

Product Description

The BDD-INCON4 is an input module to be connected to voltage free outputs or NPN transistor outputs. It allows a flexible installation and connection concept to third party devices (e.g.

alarm arming devices) in building automation installations. It is part of the smart-house concept and it can be used with all the functions supported by the smart-house controller.

Ordering Key

BDD INCO N 4 U

Decentral module
Input module
NPN
Number of inputs
Smart Dupline®

Type Selection

Inputs	Contact input	LEDs	Bus Supplied
4	Voltage free, NPN	3	BDD-INCON4-U

Input Specifications

Inputs	4 contacts or NPN-transistor
Open loop voltage	External supply: 8.0 VDC
Open loop voltage	Bus supply: 5.3-7.6 VDC
Short-circuit current	≤ 100 μA
Input voltage signal "1"	≤ 1 V
Input voltage signal "0"	≥ 1.6 V
Contact resistance	< 1 kΩ
Cable length	< 3 m

Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	2 mA

Supply Specifications

Power supply DC types	Overvoltage cat III (IEC 60664)
Rated operational voltage (VDD_{in})	10-30VDC (ripple included)
Ripple	≤ 3 V
Reverse polarity protection	Yes
Current consumption	≤ 15 mA + Load on DC+
Max Load on DC+	≤ 250 mA
Inrush current	≤ 1A
Power dissipation	≤ 0.5 W
Transient protection voltage	800 V
Dielectric voltage	
Supply - Dupline® bus	None
Supply - Inputs	None



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	50 g
LED's Indication Supply ON Dupline® carrier Armed	1, green 1, yellow 1, red	CE Marking	Yes
Environment Operating temperature Storage temperature Humidity (non-condensing)	-20° to +50°C (-4° to 122°F) -50° to +85°C (-58° to 185°F) 20 to 80%	EMC Immunity - Electrostatic discharge - Radiated radiofrequency - Burst immunity - Surge - Conducted radio frequency - Power frequency magnetic fields - Voltage dips, variations, interruptions Emission - Conducted and radiated emissions - Conducted emissions - Radiated emissions	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 EN 61000-6-3 CISPR 22 (EN55022), cl. B CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)
Dimensions	107 x 50 x 110 mm		

Mode of Operation

The BDD-INCON4 is fully programmable via the SH Tool: each input can be individually associated to one or more functions supported by the smart-house system.

BDD-INCON4 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 number in the configuration tool when creating the system configuration.

The red LED is also configurable via the SH Tool: the user can associate it to any function as a feedback led.

Used channel: 4 input channels, 1 output channel

BDD-INCON4-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 1 output (red LED) channels.

LED indication

The three LEDs are illuminated only if the input module is supplied with an external power supply.

Green LED: power status

ON: power supply ON
OFF: power supply OFF

Yellow LED: Dupline® status

ON: Dupline® bus connected
OFF: Dupline® bus not connected or faulty

Red LED: feedback led

Programmable by the user.

Wiring Diagrams

