

# SBB2I



## Fire damper input module



### Benefits

- Ready-to-use junction box housing with transparent lid for fast and easy decentralized installation
- One input module can monitor one fire damper
- Fast and easy wiring to the main controller via the Dupline® bus (free topology and long distance capability)
- Up to 60 fire damper modules can be connected to one Dupline® network
- The system can be interfaced to the BMS via BACnet or Modbus

### Description

The SBB2I is a 2-input module designed to monitor the blade position of up to two fire dampers. It is also possible to use the inputs as standard digital inputs for any type of application. The module is implemented in a robust junction box for a decentralized installation close to the fire dampers. The module is part of the smart building products range. Several modules can be connected to the same Dupline® 2-wire bus and thus the wiring to the controller can be significantly simplified.

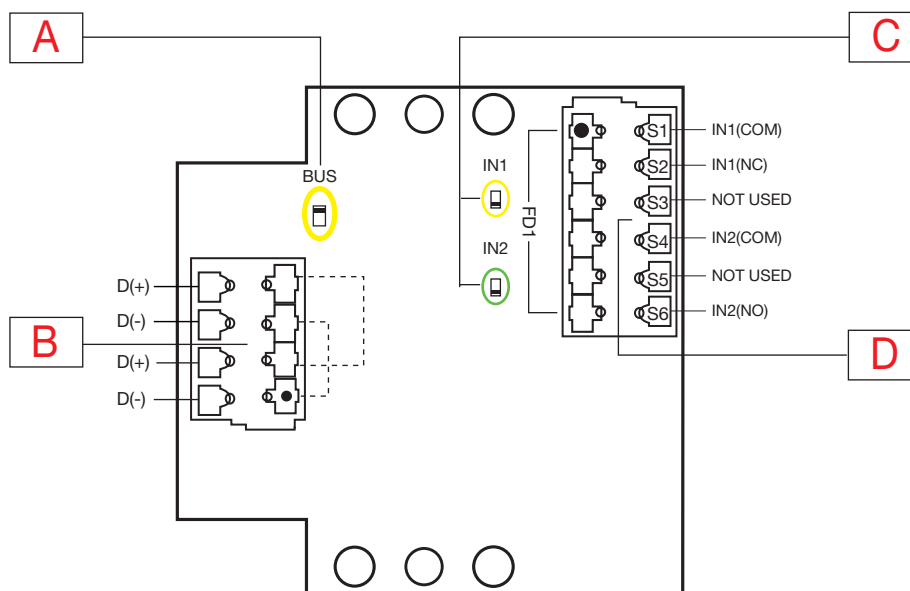
### Applications

- Monitoring of fire dampers

### Main features

- 2 x contact inputs (voltage free)
- Smart Dupline® protocol
- Powered by the bus

## Structure

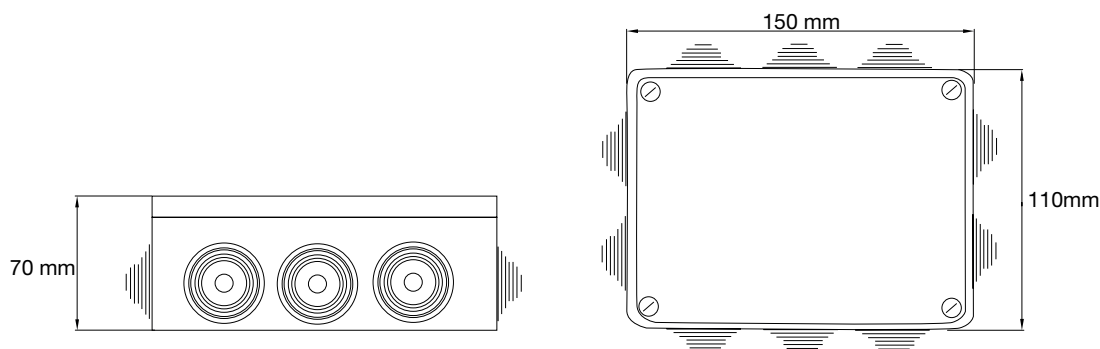


Element	Component	Function
A	Yellow LED	Power supply and Dupline® bus status ON: Supply ON and Dupline® bus OK OFF: No communication is present on the Dupline® bus
B	Dupline® terminals	Dupline® terminals connection
C	Yellow LED (IN1) Green LED (IN2)	Input contact status ON: Input closed OFF: Input open
D	Input terminals	Fire damper terminals connection

## Features

### General


<b>Housing</b>	Standard junction box with transparent lid. 10 knockout openings for M12 or M16 cable.
<b>Material</b>	Box (PC/ABS) / Transparent lid (PC) Halogen free
<b>Dimensions (HxWxD)</b>	150 x 110 x 70 mm
<b>Weight</b>	400 g
<b>Protection grade</b>	IP55
<b>Pollution degree</b>	2 (IEC 60664-1. Par. 4.6.2)
<b>Dielectric strength</b>	Dupline® to input: no insulation



### Environmental

<b>Operating temperature</b>	0° to 50°C (-4°F to 122°F)
<b>Storage temperature</b>	-50° to 85°C (-58°F to 185°F)
<b>Humidity (not condensing)</b>	20 to 90%

### Compatibility and conformity

<b>Electromagnetic compatibility (EMC) - immunity</b>	EN 61000-6-2
<b>Electromagnetic compatibility (EMC) - emissions</b>	EN 61000-6-3
<b>Approvals</b>	

### Power Supply

<b>Power Supply</b>	Supplied by bus
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## Dupline®

<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>	4 mA

## Input specifications

<b>Number of inputs</b>	2
<b>Type</b>	Voltage-free contact
<b>Input current</b>	< 100 $\mu$ A
<b>Max. resistance of the close contact</b>	200 $\Omega$
<b>Cable length</b>	< 3 m

## Terminal block

<b>Dupline® bus</b>	4 x spring terminals
<b>Contact inputs</b>	6 x spring terminals
<b>Cross-section area</b>	Max. 2.5 mm <sup>2</sup>

## Mode of operation

The SBB2I monitors the contact status giving the indication of the damper blade position. The module is programmable by using the UWP 3.0 configuration tool and the inputs can be individually set as NO or NC, according to the specifications of the fire damper unit. Please refer to the UWP 3.0 Tool manual for further details about the configuration.



## References

### Further reading

Information	Document	Where to find it
UWP3.0 installation guide	System manual	<a href="http://www.productselection.net/MANUALS/UK/uwp3.0_system.pdf">www.productselection.net/MANUALS/UK/uwp3.0_system.pdf</a>
UWP3.0 software manual	UWP3.0 tool manual	<a href="http://www.productselection.net/MANUALS/UK/uwp3.0_tool.pdf">www.productselection.net/MANUALS/UK/uwp3.0_tool.pdf</a>

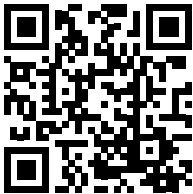
### Order code



SBB2I

### CARLO GAVAZZI compatible components

Purpose	Component name/code	Notes
Controller	UWP 3.0	
Bus generator	SH2MCG24 /SBP2MCG324	



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