

Smart Dupline® Cup Anemometer Type BSN-ANE-U

CARLO GAVAZZI



- Anemometer for building automation application
- Measuring range: 2 m/s to 25 m/s
- Built-in alarm output with 7 preset values
- Easily mountable
- Supplied by bus, no external supply is needed

Product Description

BSN-ANE-U is a cup anemometer designed for measuring air speed. It is equipped with a specially designed protection mechanism, which protects the bearings and the electronic parts against dirt and humidity. This anemometer

is part of the smart-house concept for building automation applications and can be used to control roller blinds, shutters, curtains and all other functions supported by the smart-house controller. It is fully programmable via the SH tool.

Ordering Key

BSN ANE U

Decentral
Cup anemometer
Smart Dupline®

Type Selection

Measuring range	Bus supplied
2 m/s to 25 m/s	BSN-ANE-U

Input Specifications

Measuring range	2 to 25 m/s ≤ 3 m/s: ± 0.5 m/s ≥ 3 m/s: ± 10%
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Dupline Output Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	6 mA

Supply Specifications

Power supply	Supplied by bus
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Heating System

Heating system	> -20°C (> -4°F)
Heater	PTC-element
Supply voltage	12 to 24 VAC/VDC on separate wires
Inrush current	1.5 A
Power consumption	@ - 20°C: app. 10 W @ + 20°C: app. 5 W @ + 60°C: app. 1.5 W

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 IP 54 Pollution degree 2 (IEC 60664-1, par. 4.6.2) Operating temperature -20° to +60°C (-4° to 140°F) Storage temperature -20° to +60°C (-4° to 140°F) Humidity (non-condensing) 20 to 80% RH
Connection	Cable 5 m unshielded grey PVC, 6 x 0.25 mm ²
Housing	Dimensions 183 x 137 x 145 mm Material Black PVC Body Stainless steel Rotor (AISI 303), black painted Bearings Instrument ball bearings, stainless steel Mounting position Vertical with M28 thread
Weight	800 g
CE Marking	Yes



General Specifications (cont.)

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
- Voltage dips, variations, interruptions	EN 61000-4-11
Emission	EN 61000-6-3
- Conducted and radiated emissions	CISPR 22 (EN55022), cl. B
- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)

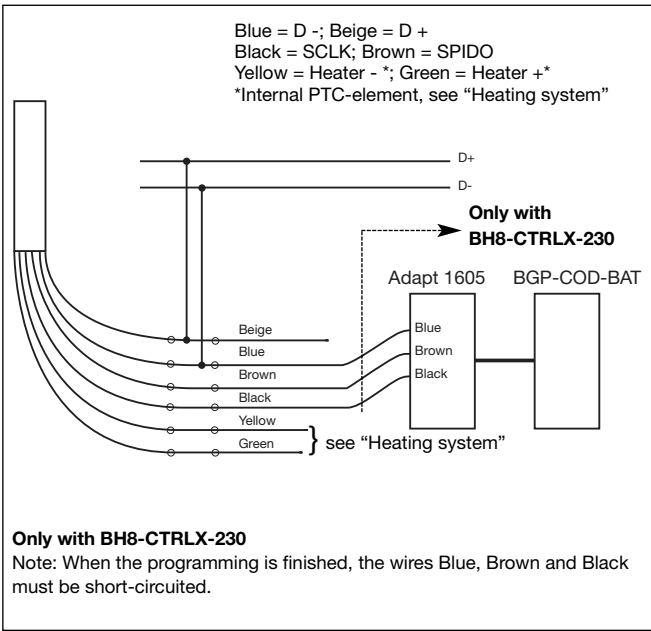
Mode of Operation

BSN-ANE-U connected to the SH2WEB24
The wind threshold can be programmed using the SH tool.

gram the Dupline® channels using the BGP-COD-BAT: this module has 8 output channels that can be programmed according to the following table:

Coding/Addressing		
If the 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.		
BSN-ANE-U connected to the BH8-CTRLX-230		
Coding/Addressing		
If the module is connected to the BH8-CTRLX-230 controller, the user has to pro-		
I/O 1	Output	Analink
I/O 2	ON OFF	7 ms 5 ms
I/O 3	ON OFF	8 ms 6 ms
I/O 4	ON OFF	9 ms 7 ms
I/O 5	ON OFF	10 ms 8 ms
I/O 6	ON OFF	11 ms 9 ms
I/O 7	ON OFF	12 ms 10 ms
I/O 8	ON OFF	13 ms 11 ms

Wiring Diagram



Dimensions

