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%

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

Heating System

Heating system Heater	> -20°C (> -4°F) 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
  Pollution degree
  Operating temperature
  Storage temperature
  Humidity (non-condensing)
	
	IP 54
	2 (IEC 60664-1, par. 4.6.2)
	-20° to +60°C (-4° to 140°F)
	-20° to +60°C (-4° to 140°F)
	20 to 80% RH

Connection Cable	 5 m unshielded grey PVC, 6 x 0.25 mm²

Housing
  Dimensions
  Material
    Body
    Rotor
 	
    Bearings
 	
  Mounting position
	
	183 x 137 x 145 mm
	
	Black PVC
	Stainless steel (AISI 303), black painted
	Instrument ball bearings, stainless steel
	Vertical with M28 thread

Weight	800 g
CE Marking	Yes

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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
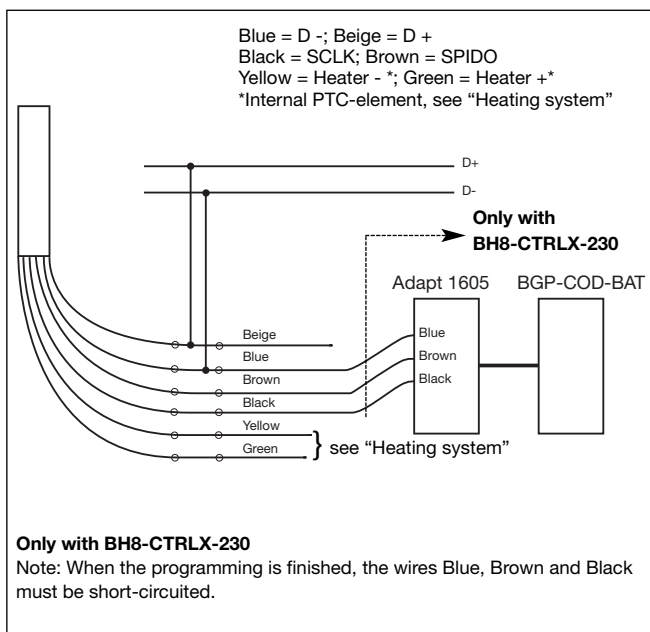The wind threshold can be programmed using the SH tool.

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

I/O 1	Output	Analink
I/O 2	ON	7 ms
	OFF	5 ms
I/O 3	ON	8 ms
	OFF	6 ms
I/O 4	ON	9 ms
	OFF	7 ms
I/O 5	ON	10 ms
	OFF	8 ms
I/O 6	ON	11 ms
	OFF	9 ms
I/O 7	ON	12 ms
	OFF	10 ms
I/O 8	ON	13 ms
	OFF	11 ms

Wiring Diagram

Blue = D -; Beige = D +
Black = SCLK; Brown = SPIDO
Yellow = Heater - *; Green = Heater +*
*Internal PTC-element, see "Heating system"

Only with BH8-CTRLX-230
Note: When the programming is finished, the wires Blue, Brown and Black must be short-circuited.

Dimensions