

## Relay unit.

Belimo relay units feature four relays with visual alarms. All relay units are wired via a daisy chain and are backed by a five-year warranty. Communication modules and relay units are available for applications that require control from centralized locations.



5-year warranty

## Type Overview

Type	Number of relays	Number of analogue outputs	Communication
C-22G-50	4	0	CAN bus

## Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage note	Please see remarks section for nominal voltage details and nominal voltage range.
	Nominal voltage frequency	50/60 Hz
	Power consumption AC	5 VA
	Power consumption DC	1.7 W
	Cable entry	2 top, 2 bottom, 1 rear – 1/2" EMT
	Cable specification	Power cable: 18...20 AWG Communication cable: 22...24 AWG twisted pair, shielded jacketed, low capacitance Please see the remarks section for more information about cable size and polarity.
	Fuse	Thermal PTC, auto-reset
<b>Data bus communication</b>	Communication	CAN bus
<b>Functional data</b>	Medium	Air
	Output signal relay note	Relays: SPDT, 5A @ AC 125 V, non-inductive Please see remarks section for relay rating.
	Max. altitude	2000 m [6562 ft] above sea level
<b>Safety data</b>	Degree of protection NEMA/UL	NEMA 2
	Pollution degree	2
	Ambient humidity	15...90% RH continuous, 0...99% RH intermittent, non-condensing
	Ambient temperature	-20...50°C [-4...122°F]
<b>Materials</b>	Housing	UL94 5VA

## Remarks

**Nominal voltage details** All Belimo gas monitors, communication modules, and relay units can be powered by AC/DC 24 V. Under CSA/UL 61010-1 all gas monitors and communication modules are rated to AC 24 V only. Under ULC-S588 and UL 2075 all vehicle emissions gas monitors (CO, NO<sub>2</sub>, CO + NO<sub>2</sub>) are rated to AC/DC 24 V.

## Remarks

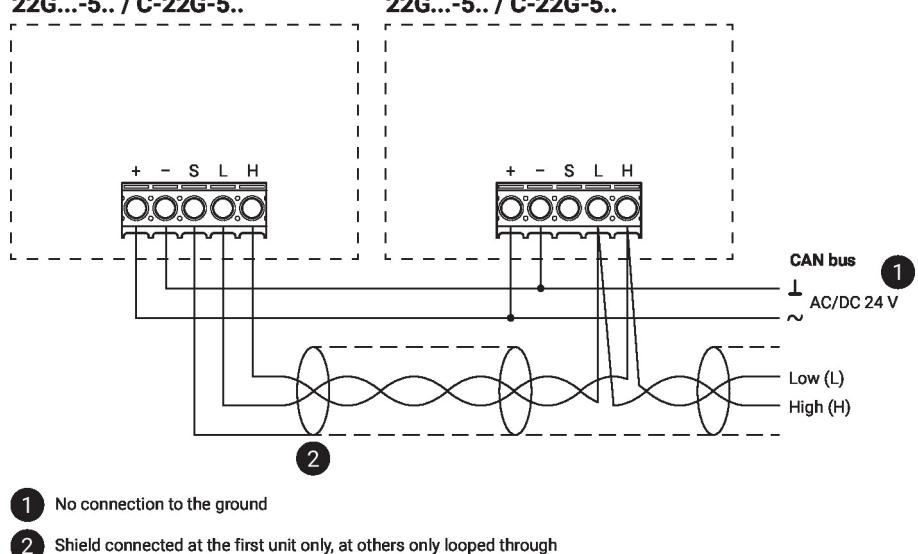
<b>Nominal voltage range</b>	All Belimo gas monitors, communication modules, and relay units have a nominal voltage range of AC 17...28/DC 21...38 V (not UL or CSA tested), AC/DC 20.4...26.4 V (UL tested).
<b>Power cable size and polarity</b>	Terminal blocks can accommodate one 14...20 AWG (2.5...0.5 mm <sup>2</sup> ) or two 18...20 AWG (0.75...0.5 mm <sup>2</sup> ) copper cables in the same terminal. Please take cable and transformer size into account to provide adequate voltage. Maintain the same polarity between devices at full power (AC/DC 24 V).
<b>Communication cable size and polarity</b>	CAN bus and BACnet MS/TP communication cables should be 22...24 AWG (0.34...0.25 mm <sup>2</sup> ), twisted-pair, shield-jacketed, low-capacitance stranded cable. Please consider the CAN bus baud rate (programmable setting No. 68) and BACnet the MS/TP baud rate (programmable setting No. 48) to provide working communications. For all communication wiring, maintain the same polarity and baud rate between all devices on the network.
<b>Relay rating</b>	All relays used in Belimo gas monitors, communication modules, and relay units are rated for: SPDT, 5 A @ AC 125 V, non-inductive (UL/CSA tested), and SPDT, 4 A @ DC 24 V, non-inductive (not UL/CSA tested).

## Accessories

Electrical accessories	Description	Type
Communication module, CAN bus, BACnet MS/TP, 1 relay, 2 analogue outputs		C-22G-5A
Communication module, CAN bus, BACnet MS/TP, 2 relays		C-22G-5B
Communication module, CAN bus		C-22G-5C
External visual alarm,		A-22G-A15
External audible alarm		A-22G-A16
Transformer, 50 VA		A-22G-A50
Transformer, 100 VA		A-22G-A100
Mechanical accessories	Description	Type
Splash proof housing		A-22G-A12
Duct mount housing		A-22G-A13

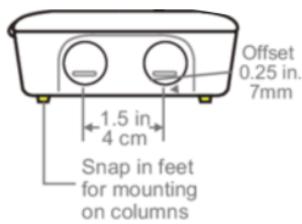
## Wiring diagram

## Wiring CAN bus

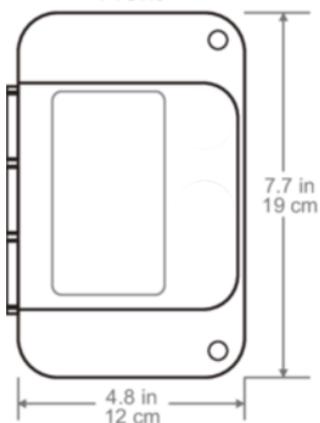


## Dimensions

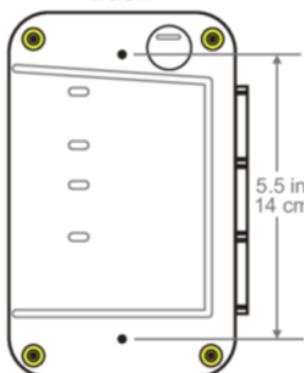
Top



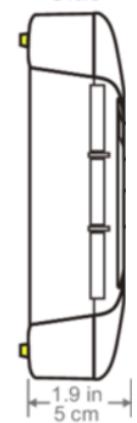
Front



Back



Side



## Further documentation

- Installation instructions
- Operating instructions