

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

Electrical data	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
Data bus communication	Communication	CAN bus
Functional data	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
Safety data	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]
Materials	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 ₂ , CO + NO ₂) are rated to AC/DC 24 V.
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Remarks

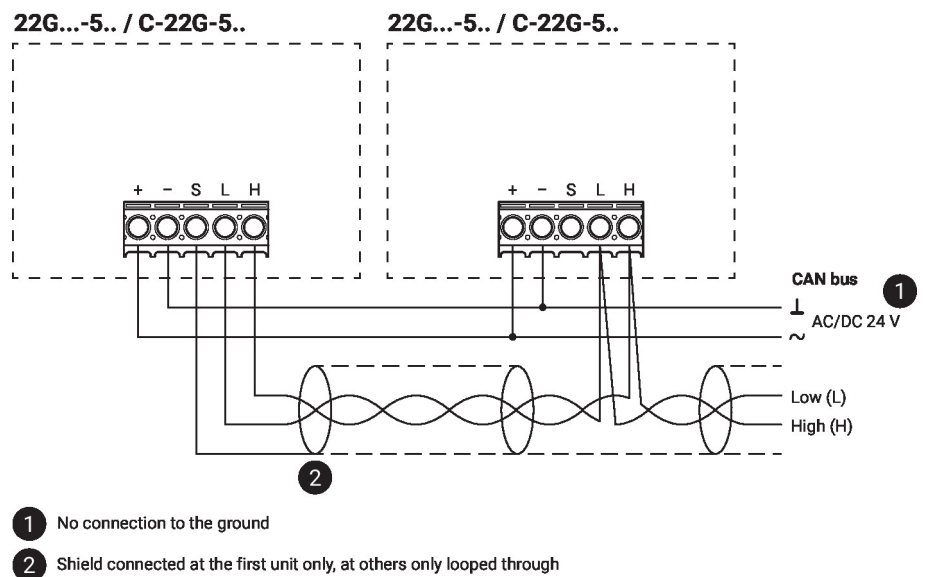
Nominal voltage range	All Belimo gas monitors, communication modules, and relay units have a nominal voltage range of AC 17...28/DC 21...38 V (not UL or CSA tested), AC/DC 20.4...26.4 V (UL tested).
Power cable size and polarity	Terminal blocks can accommodate one 14...20 AWG (2.5...0.5 mm ²) or two 18...20 AWG (0.75...0.5 mm ²) 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).
Communication cable size and polarity	CAN bus and BACnet MS/TP communication cables should be 22...24 AWG (0.34...0.25 mm ²), 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.
Relay rating	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).

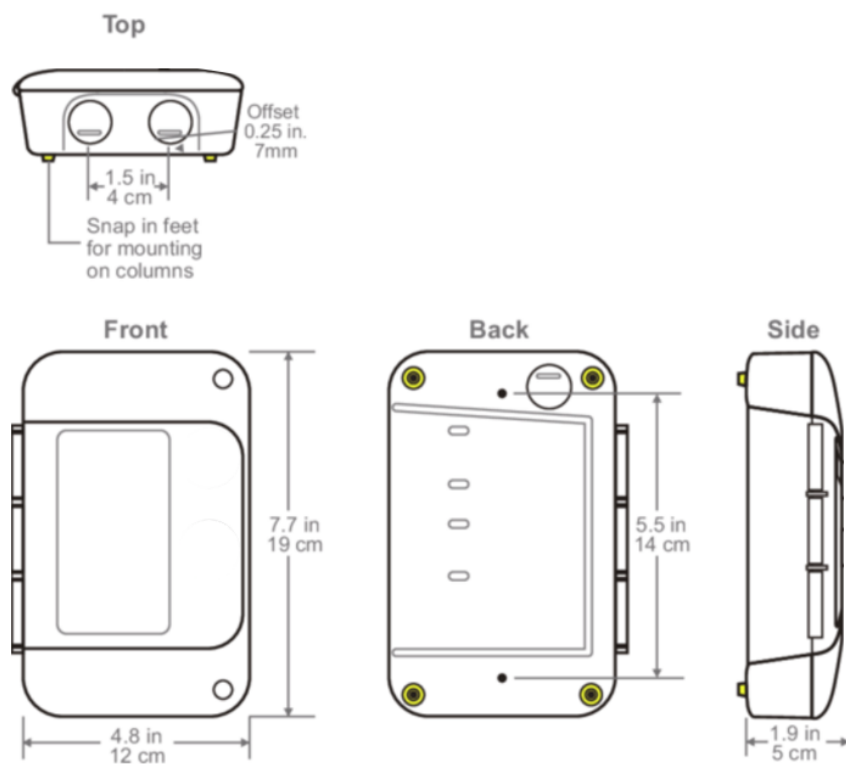
Accessories

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**Further documentation**

- Installation instructions
- Operating instructions