User Manual

0490 Sniffer RCB



ENGLISH

Sniffer RCB for LogiCO2 Safety System.

WARNING!

Please read these instructions carefully prior to start-up and use. These instructions should be saved for future reference and passed on to any subsequent owner. Failure to follow any of these instructions could result in bodily harm or death, and could void product warranties. LogiCO2 International AB, its affiliates and third party providers assume no responsibility for claims arising from improper or careless use or handling of its products. Retain this instruction.

Technical specifications

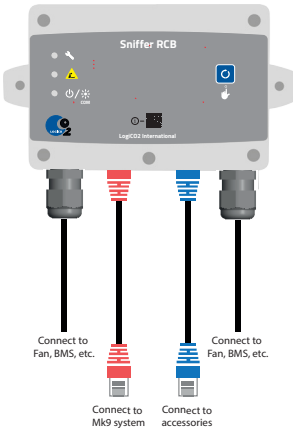
Power supply:	24VDC, from the Saftey System
Power consumption:	max 35 mA
Relay outputs:	Potential-free
Relays:	Change-over relays 24V, 1A
LED Indications:	See table on page 2
Ambient temperature:	0 to +40°C (+32°F to +102°F)
Ingress protection:	IP54
Cable lenght:	2 x 5 m
Dimensions (LxWxD):	90 x 161 x 38 mm / 3.5" x 6.3" x 1.5"

Function

The LogiCO2 Sniffer RCB is an Alarm summary relay that monitors the LogiCO2 Safety System and responds to an Alarm from any of the connected sensors.
The Sniffer RCB is powered by the LogiCO2 Safety System.

Installation

Connect the Red RJ45 cable to the LogiCO2 Safety System and connect the Blue RJ45 cable to one or more LogiCO2 accessory - e.g., Horn/Strobe, Safety Valve, RCB, etc. Additionally, there are two potential free (dry) relays located through the cable glands. By changing the DIP-switch settings it is possible to activate both relays at Low Alarm, or High Alarm, or one for each. These relays can be used to transmit alarm indications to external devices, such as fire alarm panels, exhaust fans, or building management systems. 24VDC terminals are also available for use - please note that if this is used, the additional power consumption will need to be included in the calculations for the entire LogiCO2 Safety System.



Maintanence

The LogiCO2-Sniffer RCB requires no maintenance.

Important

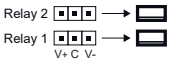
All persons responsible for the use and maintenance of this equipment must read and understand the safety and operating information contained in this guide. Installation and service of this equipment should be performed only by professionals. The function of the equipment will be impaired if it is not properly installed.

Important information regarding third party products

The functionality of LogiCO2's products are only warranted if connected to LogiCO2's systems and products. LogiCO2 is not liable for the functionality of any systems if LogiCO2 components or parts are connected to third party products. LogiCO2 permits its products to be connected to external relays controlling ventilation and valves as well as fire alarm panels and building management systems.

Jumper Settings

The relays are potential free (dry) when both jumpers are removed from the pin header.



Optional Settings:

It is possible to connect V+ to common (C) on the relays by placing the jumper on the position V+/C.



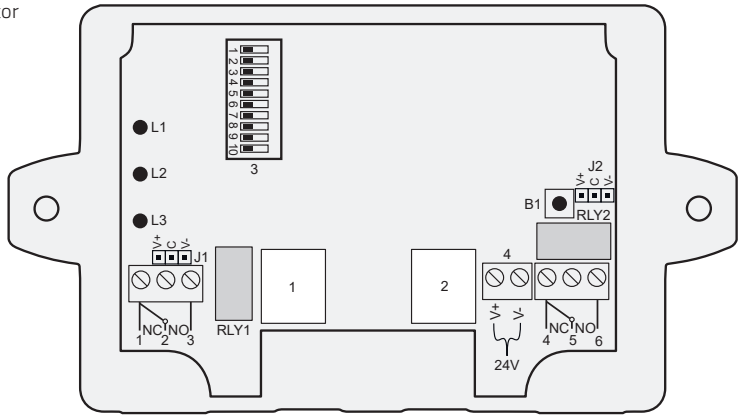
To connect V- to comon (C), place the jumper on C/V-.



PCB Layout

1. RJ45 input connector
2. RJ45 output connector
3. DIP Switch
4. 24V output

L1. LED Yellow
L2. LED Red
L3. LED Green
B1. Button
RLY1. Relay 1
RLY2. Relay 2
J1. Jumper for relay 1.
J2. Jumper for relay2.



LED Indication & Button



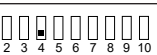
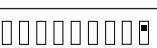
LED	Colour	Information
1	Yellow	Solid if sensor communication is lost. Reset by pushing button.
2	Red	Alarm Indication. Flashing for Low Alarm, solid for High Alarm.
3	Green	Power indication. Flashing when communicating correctly with Safety System.

Button

The button can be used to confirm an alarm manually once the alarm condition is cleared. Meaning that as long as there is an active alarm the button can not be used to reset it, this can only be done when the alarm is over.

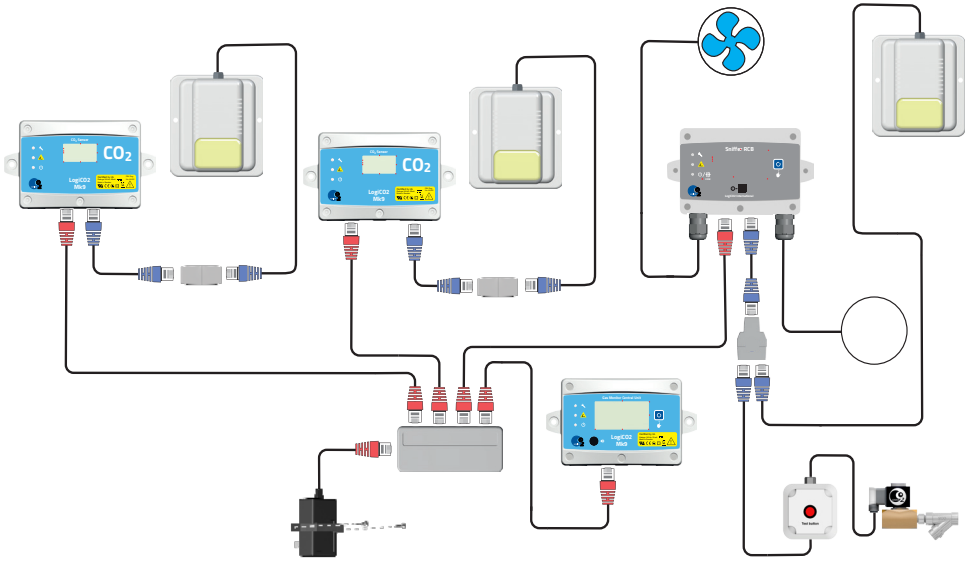
The button can also be used to reset a list of known sensors on the bus (e.g. if a sensor is removed). By pressing down the button when the yellow LED is glowing the list of detected sensors will be reset, and the detection will start over from the beginning. However, if an alarm condition is active, the alarm condition will still continue to be active.

DIP-switch settings

DIP Switch	ON/OFF	DIP-switch	Description
DIP 1	OFF		Relay 1 activates at Low Alarm.
	ON		Relay 1 activates at High Alarm.
DIP 2	OFF		Relay 1 is normally activated.
	ON		Relay 1 is normally inactivated.
DIP 3	OFF		Relay 2 activates at Low Alarm.
	ON		Relay 2 activates at High Alarm.
DIP 4	OFF		Relay 2 is normally activated.
	ON		Relay 2 is normally inactivated.
DIP 5	OFF		Relays: Manual reset, button must be pressed to confirm alarm
	ON		Relays: Auto reset when alarm condition is cleared
DIP 6	OFF		Blue Cable: Manual reset, button must be pressed to confirm alarm
	ON		Blue Cable: Auto reset when alarm condition is cleared
DIP 7	OFF		Direct activation of relays.
	ON		9.5 second delayed activation of relays.
DIP 8	OFF		-
	ON		-
DIP 9	OFF		-
	ON		-
DIP 10	OFF		ModBus termination (120 ohm) OFF
	ON		ModBus termination (120 ohm) ON

Installation Example

In the figure below the Sniffer RCB is connected to a fan and a BMS via the potential free relays. This allows the Sniffer RCB to start the fan if for example a low alarm is activated and the BMS makes it possible to monitor it in an external system.
There is also a SMB Safety Valve (0476) and Horn Strobe connected via the RJ45 output and a split. This allows the Sniffer RCB to shut off the gas supply if a high alarm occurs as well as setting its connected Horn Strobe in alarm, depending on the chosen functions via DIP, regardless which sensor it is that is alarming.



Subject to typographical errors and change without prior notice.

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