

Features

- Control 2 accessories on the vehicle via ISAAC Instruments Recorder; door locks, anti-theft system, etc.
- Operating indicator LED
- Easy connectivity to ISAAC Device Network (IDN)
- Rugged enclosure and small size
- Weather resistant enclosure and connectors

Description

The module CANRLY is used to activate two relays 1A @ 24VDC/120AC: door locks, anti-theft system, etc.

The CANRLY is controlled directly by an ISAAC Instruments' Recorder via ISAAC Device Network (IDN).

The module has 2 CAN ports allowing to extend the IDN with additional modules or to terminate the IDN using a termination resistor (CBLCAN-TR2-120).



Installation

Setup:

- Connect CANRLY (Port « CAN IN ») to one of available ports of the IDN
- Make sure to connect the termination resistor (CBLCAN-TR2-120) if CANRLY is at the end of IDN
- Connect the relay outputs following your application (common, normally closed, normally open)
- Route the cable at least 20cm (8") away from high interference electrical devices, such as: ignition coils, plug leads, high-current leads, high emission electronic modules or antennas
- Refer to page 3 for an example of installation
- Refer to the section «using the system» (page 2) for more details

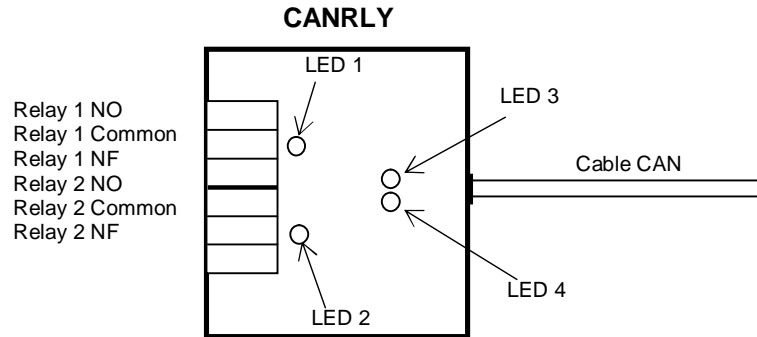
Software configuration:

CAN Port Activity: ISAAC Device Network

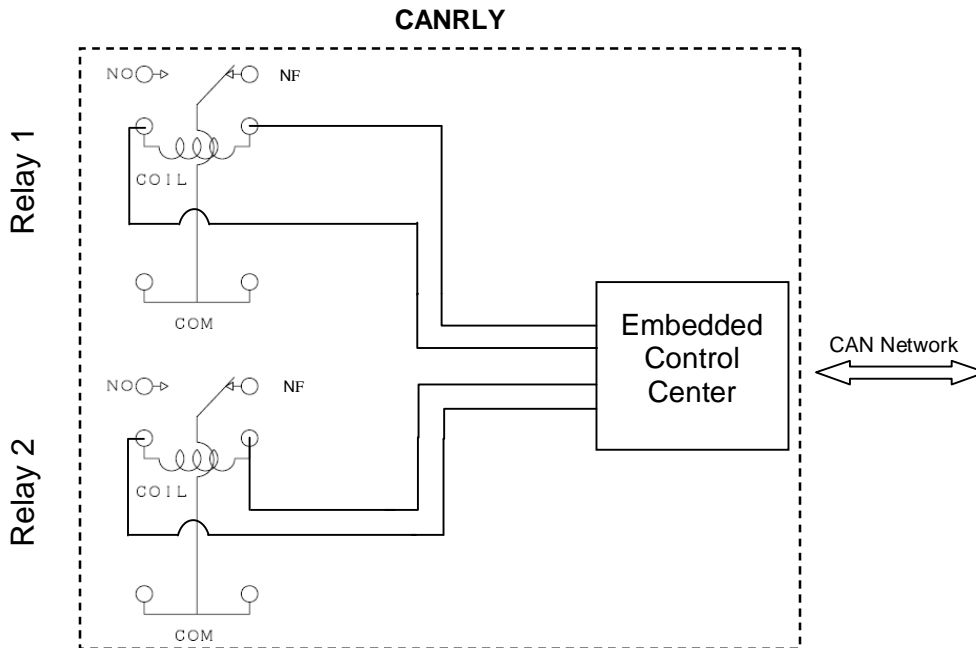
CAN bit rate: 500 Kbit/s

Using the system:

- **Connectivity diagram (top view) :**



- **Functionality Diagram:**



- **Description of the LED status:**

LED #	Color	Status
LED 1	Red OFF	Relay #1 is active Relay #1 is inactive
LED 2	Red OFF	Relay #2 is active Relay #2 is inactive
LED 3	Green	CAN communication is functional
LED 4	Blinking Red	CAN communication error

Specifications

Description	Symbol	Min.	Typ.	Max.	Unity
Power requirements					
Power supply voltage	V_{in}	11		30	V
Current	I_{in}		50		mA
Communication interface					
Type		HS CAN			
Speed	V_{can}		500		Kbps
Characteristics of relay contact					
Current	I		1		A
Voltage	V_{dc}		24	30	VDC
	V_{ac}		120	120	VAC
Power	P_{max}			24	W
Minimum load	I_{min}		30		mA
Maximum activation rate					
With load	R_{wload}			30	act/min
Without load	R_{noload}			300	act/min
Lifetime without charge					
With load	L_{wload}		100 000		act.
Without load	L_{noload}		5 millions		act.
Résistance	R		50		MOhm
Environnement					
Operating temperature	T_{Oper}	-40 (-40)		80 (176)	°C (F)
Storage temperature	T_{Stor}	-40 (-40)		80 (176)	°C (F)
Humidity			100%		
Mechanical properties					
Height	H		50 (2)		mm (in)
Width	W		50 (2)		mm (in)
Depth	D		16 (0.63)		mm (in)

Typical installation of ISAAC Device Network (IDN)

