

CAN-KEY



Introduction

Listen to any CAN bus without damaging the wires or disturb the CAN bus signals

Listen to the data traffic on a CAN bus without making an electrical connection to the physical bus. The sensor is easy to mount, attached to the existing CAN wires with a smart click-fit locking function and provides galvanic isolation to the CAN bus it is listening to. The device will eavesdrop all data on the bus to a dedicated CAN bus. No configuration is required!

CAN-KEY can be used with any ISO 11898-2 compliant CAN bus, such as SAE J1939 or CANopen.

Many of the devices available on the market today need to have physical connection to the conductors of the CAN bus wires to be able to read the data. This will break the insulation of the wires which means it get exposing the conductors to the surrounding moisture/air humidity.

If the insulation of the wires in the original system is tampered with, you will have the possibility that the connected device may disturb the CAN bus and it will in most cases also void the warranty of the system it is connected to.

CAN-KEY have a small sensor part inserted between the CAN-High and CAN-Low wires and listens to the bus by sensing the extremely small capacitance change during data communication.

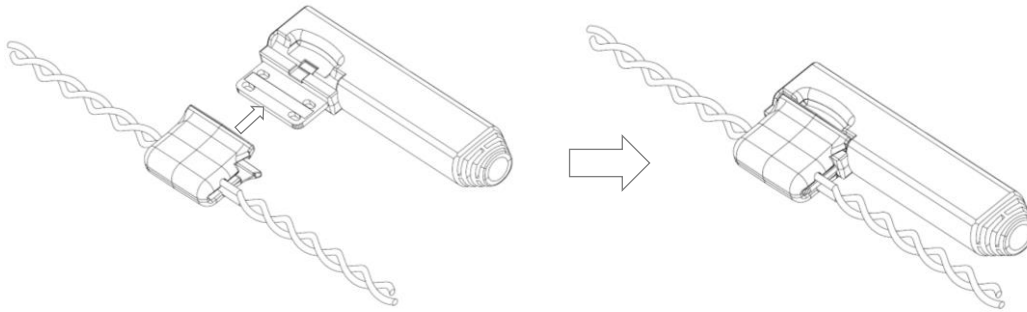
Features

- No physical wire connections
- 100% Galvanic isolation
- Fast and easy installation
- Do not void the warranty of the system it is connected to
- Reliable and fit most applications
- Wide supply voltage
- IP68 protection

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How to use CAN-KEY?

The Basic version of CAN-KEY is used as a passive reader of the CAN bus signals. The CAN bus signal is read without damaging the wires and past forwarded to a new dedicated CAN bus. It will eavesdrop all data and transmit this information to the desired system.



CAN-KEY is also available as an Active version (customer specific) and will provide far more functionalities such as:

- Configurable (listen and detect specific CAN messages)
- LEDs showing CAN bus activity
- 2 configurable high side/high current outputs
- 2 configurable analog inputs
- Measure and transmit system voltage and temperature
- Real-time clock
- Configurable CAN bus baud rate
- Can Co-exist with other CAN bus devices

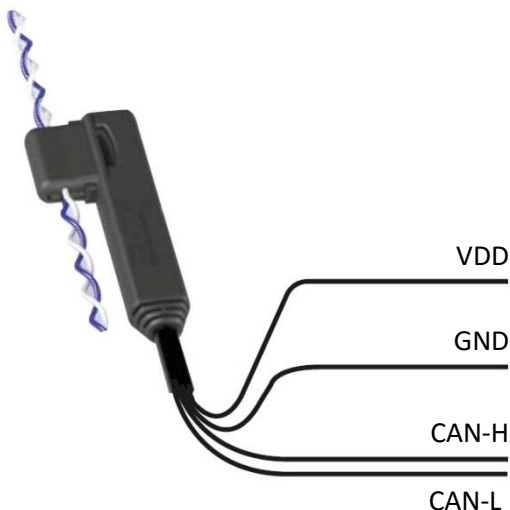
Except for eavesdrop the CAN signals, you can also configure the CAN-KEY to, for example, activate outputs when specific CAN messages appear in the attached CAN bus system.

Technical specification

ELECTRICAL	
Operating voltage	7 – 36 VDC
Inputs*	2xAIN (0-36 VDC)
Outputs*	2xDOUT (PWM, 2A)
Protection	Reverse polarity, Over current
CAN	ISO11898, 2.0B, 20k to 1Mbit/s

ENCLOSURE	
Material	TBD
IP protection	IP68
Size WxHxD	TBD
Color	Black
Temperature range	-40°C to +85°C
Weight	Approx. 50 g

CERTIFICATION (pending)	
CE, E-mark	
Fullfills directive	UN ECE R10
Applying standards	TBD



Ordering information

MODEL	PART NUMBER
CAN-KEY Passive	84 20 00
CAN-KEY Active*	84 21 xx

*Upon request



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