CAN ISOLATOR

Controllers - Add-ons

The CAN Isolator allows you to ensure clean communication between two or more ECUs with different voltage ranges, or to isolate a particular ECU by providing galvanic isolation.

It can also be used as a repeater to amplify CAN bus signals and offers the possibility of adding a 120 Ohm resistor to each of its ports by external wiring. This allows the module to act as the end point of a CAN network, or if the CAN Isolator is implemented in an existing line, it splits it into two physically terminated CAN bus lines that are still bridged together.

Technical data

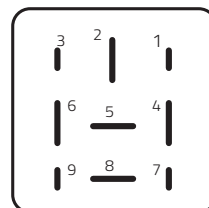| General information	
Connector	9 Pins DIN / relay shape
Dimensions	30 x 30 x 40 mm
Housing material	PA66 GF30
Operating temperature	-40 °C to 85 °C
Storage temperature	-40 °C to 85 °C
Ingress protection	IP53
Operating voltage	9 to 30 V DC
Pre-fusing	1 V
Current consumption	< 30 mA @ 24 V supply

CAN bus	
acc. ISO 11898-2	High speed
Direction	Bidirectional data exchange possible
Baud rate	10 kBit/s to 1000 kBit/s

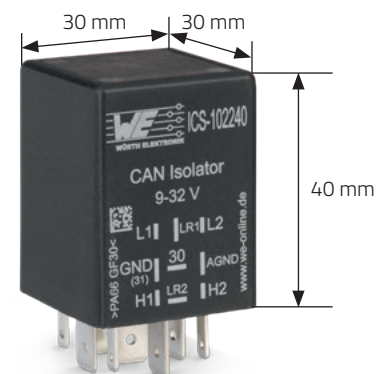| Inputs / outputs		
2	CAN buses	Galvanic isolation between two ports
2	CAN termination	Wiring connection of 120 Ω on each CAN port possible
2	Isolated ground	The two ground lines are split inside the module, do not connect them together.

Pin assignment

Pin	Description	Function
1	L2	CAN Low bus 2
2	LR1	CAN term (short to L1 to activate)
3	L1	CAN Low bus 1
4	GND 2	Ground for bus 2
5	KL30	Vsupply
6	KL31 / GND1	Ground for bus 1 / Supply GND
7	H2	CAN High bus 2
8	LR2	CAN term (short to L2 to activate)
9	H1	CAN High bus 1

Bottom View

Dimensions

Hardware map

Order information

Available references	Part number
CAN Isolator (10 kΩ)	ICS-102240
CAN Isolator (56 kΩ)	ICS-104776
CAN Isolator (1 MΩ)	ICS-104984
9 pins IP65 socket	ICS-102300
9 pins standard socket	X02783

For more information write us an e-mail **ics@we-online.com**, call **+49 7940 9810-0** or visit us at **www.we-online.com/ics**