STAR COOPERATION®

Your Partners in Excellence

FlexISO-S CAN

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BENEFITS

- Module for galvanic decoupling of CAN and CAN-FD networks
- Avoidance of disruptions and potential shifts
- Robust and easy to integrate plug-in module for test benches and vehicles
- Extremely short signal delay

ISOLATION TERMINATION ADAPTER FOR CAN UND CAN-FD

On test benches and in industrial plants, electrical machinery causes numerous electromagnetic disturbances against which the measurement hardware and diagnostic equipment must be reliably protected. Long cable lengths can also cause undesirable potential shifts that can lead to misinterpretation of the voltage levels, even in CAN bus systems.

The CAN Isolation Adapter/Repeater FlexISO-S CAN is a universally useable module for the galvanic decoupling of high-speed CAN bus systems.

During the development of the FlexIso-S CAN, special emphasis was placed on the shortest possible signal delay. This ensures a safe arbitration of the CAN bus system, despite galvanic isolation and the additional virtual line length is kept as short as possible.

FUNCTION

The CAN network is separated by high-speed optocouplers.

To operate the module, a power supply of 9 - 36 V is only required on the primary side.

The plug-on adapter is extremely fast with a signal delay of 75 ns and ensures the recessive state of the bus level through the integrated logic. The high reaction speed ensures baud rates according to ISO 11898, up to 1 MBit/s for standard vehicle CAN and 8 MBit/s for CAN-FD.

The vehicle measurement technology, PC hardware and diagnostic devices are thus reliably protected against short circuits and other errors through the decoupling.

AREAS OF APPLICATION

- Automotive Measurement Technology
- Test bench environments
- Diagnostic devices / data logger
- CAN networks in industrial plants

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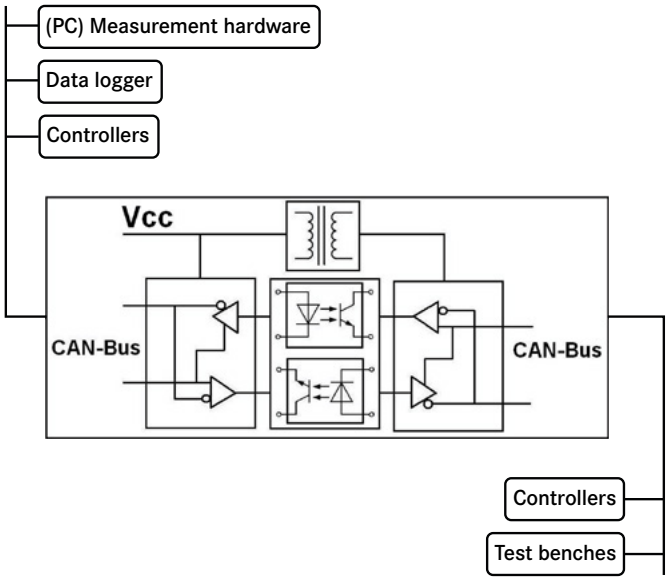
FlexISO-S CAN

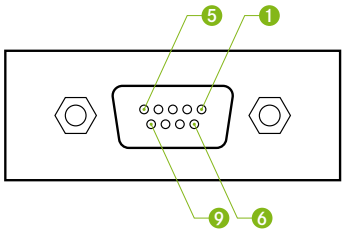
TECHNICAL DATA

Description	Value
Housing L x W x H	55 x 55 x 28 mm (Aluminium)
Supply voltage	9 V to 36 V
Signal delay	type 75 ns
Power consumption	max. 80 mA
Operating temperature	-40°C to +85°C
Transmission rate	up to 8 MBit/s
Isolation voltage	1 KVrms (1s) / 60 Vdc, 42 Vac
Connections	2 x 9 pin Sub-D



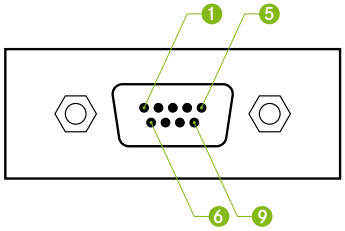
PIN CONFIGURATION

Primary side connection



Pin (Sub-D-socket)	Signal
1	n.c.
2	CAN_L
3	GND_In
4	n.c.
5	n.c.
6	GND_In
7	CAN_H
8	n.c.
9	Vcc 9-36 V

Secondary side connection



Pin (Sub-D-pin)	Signal
1	n.c.
2	CAN_L
3	GND_Out
4	n.c.
5	n.c.
6	GND_Out
7	CAN_H
8	n.c.
9	n.c.