RS-232 to CAN converter

Catalogue sheet

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FOCUSED ON DETAIL

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DOCUMENT INFORMATION

Revision No.	Author	Revision date	Description
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Annexes

Notes

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1 KEY PROPERTIES AND PRODUCT DESCRIPTION

- Galvanically uninsulated conversion of physical layers of the RS-232 bus to CAN

The converter is used to convert the physical layer of RS-232 to a more robust physical layer of the CAN bus, which can be used for communication with devices that, for example, use the CAN -> UART converter for asynchronous communication. This communication often occurs in LED control circuits such as TPS92662. The device only converts physical layers and therefore it is necessary to solve the protocol control on the side of the parent system/application. The converter contains a 120R CAN bus terminating resistor.

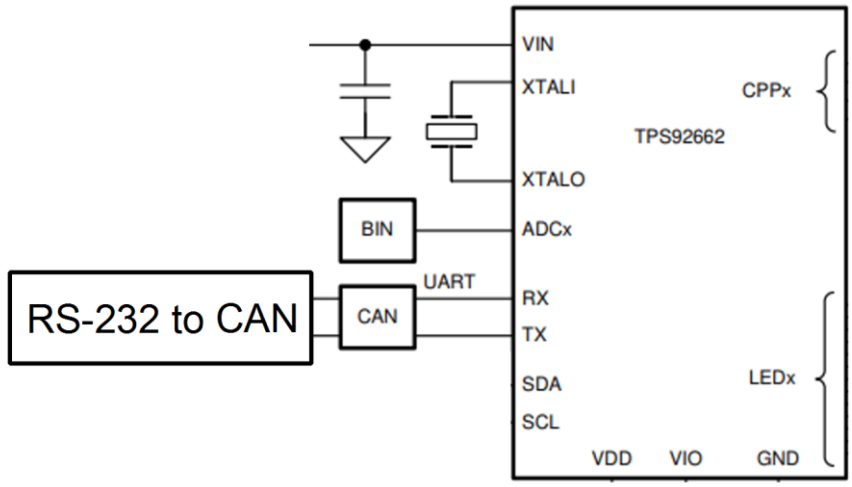

Fig. 1 - Block diagram of the converter connection to the technology

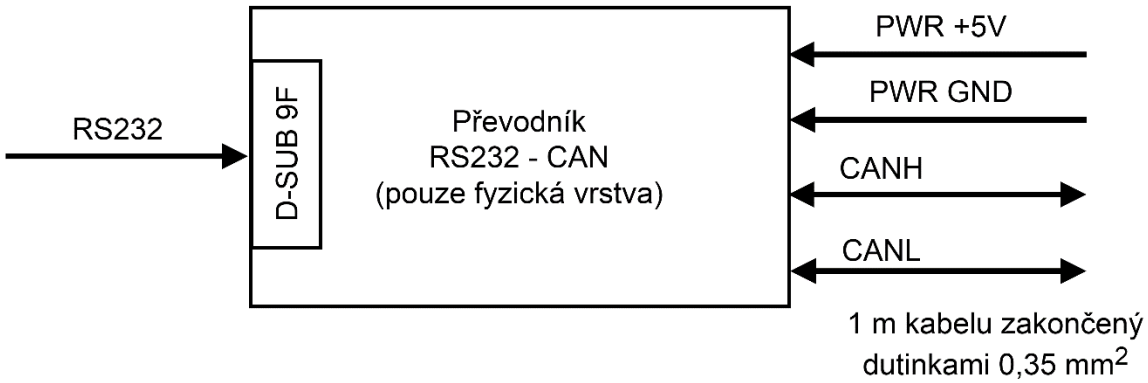

Fig. 2 - Block diagram of the converter

2 TECHNICAL PARAMETERS

Name	Value
Power voltage	5 V DC ± 10%
Current consumption	Max. 10 mA
Size	33 x 60 x 16 mm (without wire and connected connector)
Communication interface	RS-232, CAN (terminated with 120R)

Tab. 1 – Technical parameters

Fig. 3 – RS232 to CAN converter (top view)

Fig. 4 – RS232 to CAN converter (bottom view)

3 Description of controls and indicators

Wire	Marking	Description
Green	GND	0V connection
Brown	5V	5V connection
Yellow	CANH	CAN-H connection
White	CANL	CAN-L connection

Tab. 2 – Wiring

Pin	Marking	Revision description
2	RXD	Receiver wire connection (data output from the converter)
3	TXD	Transmitter cable connection (data input to the converter)
5	GND	0V connection (reference ground)

Tab. 3 – D-SUB connection

Fig. 4 – D-SUB

4 PRODUCT VARIANTS

Order number	Name
60743001	RS232 - CAN converter

Tab. 8 – Product variants