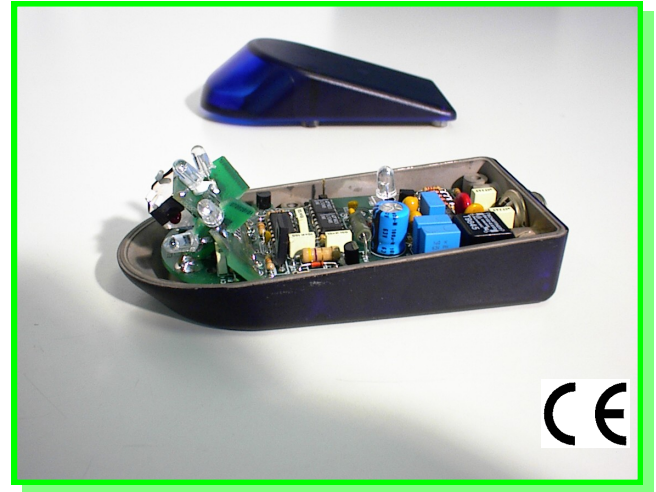


Infrared Transceiver

Infrared transceiver for the transfer of data at a speed of 1200 up to 115 KBauds, between fix and mobile equipment, through a wireless communication.



PARAMETERS

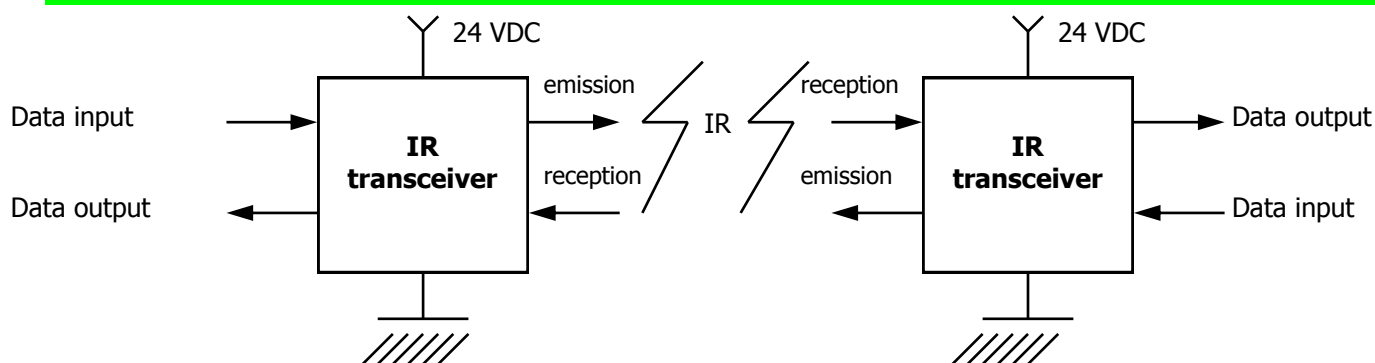
ADVANTAGES

Infrared data transfer at a speed of 1200 up to 115 KBauds	Automatic adjustment of the transfer speed
Emission and reception device in a plastic box with IP54 protection (without connector)	The transceiver operates for data emission and reception
Locking of the reception mode during the data transmission	No possible conflict about the data transfer mode
LED indicator of infrared reception mode	This indicator permits the visualization of data receipt
Locking of the emission mode during the data receipt	No possible conflict in data transfer
Connection of the transceiver with the equipment by a 6 pin C91A connector	Standard screw connector with mechanical protection
Half duplex communication modular interface	Operates on RS422 or RS485 mode
Infrared wave length : 880 nm	Standard infrared wave length

PRESENTATION

The transceiver is made of a plastic box divided in two half shells with an optical window at 45°. It includes a connector cover, a CMS mother card with the modular communication interface, the emission/reception infrared head, a 6 pin connector protected against polarity inversions. Serial link RS422 or RS485 by external connection. The locking of the emission or reception mode permits a half duplex communication. A red LED indicator permits to visualize the reception mode.

OPERATING SCHEME



CHARACTERISTICS

MECHANICAL :

- . Dimension : 143,7 x 60 x 40 mm.
- . Bottom connection with 2 M4 screws.
- . Protection level IP54 (connector : IP50).
- . Shock level : IK07.
- . Electromagnetic compatibility according to EN50081-1 et EN 50082-2 standards.

DATA TRANSFER :

- . RS422 half duplex 1200 to 115 K Bauds.
- . RS485 – 1200 to 115 K Bauds.
- . Error rate <math>< 10^{-5}</math>.

ELECTRICAL :

- . Power supply from 18 to 32 volts.
- . Energy save mode consumption : 20 mA at 24 VDC
- . Transmission consumption : 120 mA at 24 VDC
- . Operating temperature : -20 to +60°C.
- . Maximum temperature of 35°C with 95% relative humidity
- . Storage temperature : -20 to +70°C.
- . Transfer speed : 1.200 to 115.000 Bauds.
- . Return mode time <math>< 1</math> ms.

APPLICATIONS

Applications : whatever the activity (transport or handling) the typical application is the transfer of data between a mobile device (bus, waggon, truck, ...) and a fix equipment (station, programmable controller, terminal, ...). The mobile equipment stops near the fix device. The half duplex data transfer can be made according to the transfer common mode between on-board and fix devices, as the transceiver accepts a transparent data size.

The distance between the mobile and the fix equipment can be from 60 to 280 cm on horizontal position, and from 60 to 150 cm with a 45° angle on vertical position.

Sales reference of the product : 57120005100

TEC AUTOMATISMES

Z.I. des Petits Prés – Route de Balagny - F-60251 MOUY CEDEX
Tél : +33 (0)3 44 31 15 15 - Fax : +33 (0)3 44 26 43 73 - E-mail : marketing@tec-automatismes.com
www.tec-automatismes.com

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