



1. Function

The W&T RS422 Optical Data Isolator 66050 permits bi-directional connection of two RS422 devices with an electrical insulation voltage of 50000V.

To achieve this, it has to be connected to the data line linking the devices. A channel is available in each direction, reserved exclusively for the Tx/D A/B or Rx/D A/B data lines. It must not be used for handshake lines (DTR, RTS, etc.). Both lines must always be connected on both sides, even if data is only to be transmitted in one direction. No power supply is necessary. No parameters are to be set.

The insulator pin assignment must be matched, if necessary, by using additional (shielded) data cables. Care must be taken when installing the data cables that there is sufficient gap (min. 100 mm) between the cables on both sides, so that flashover can be avoided.

2. Insulation

The two ports of the W&T RS422 Optical Data Isolator 66050 are insulated both from each other with a dielectric strength of 50000 volts. The signals are isolated by means of a fiber optic connection.

3. Connectors

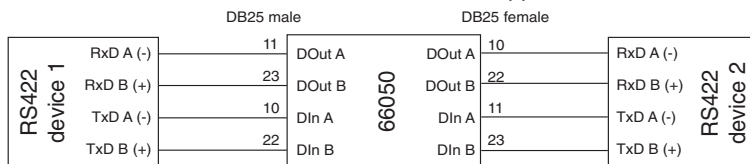
The two ports of the W&T RS422 Optical Data Isolator 66050 use DB25 connectors. The connector pin assignments are shown in the table below:

RS422 interface (DB25 male connector)	
Pin	Function
10	Data In A (-)
11	Data Out A (-)
22	Data In B (+)
23	Data Out B (+)
14	Signal GND

RS422 interface (DB25 female connector)	
Pin	Function
10	Data Out A (-)
11	Data In A (-)
22	Data Out B (+)
23	Data In B (+)
14	Signal GND

4. Application

RS422 software handshake application





5. Technical data

Baudrate:	300..9600 Baud
Data format:	any data format
RS422 signals:	RxD A(-), RxD B(+), TxD A(-), TxD B(+)
Isolation:	50.000 volts
Termination:	no termination resistors integrated
Power supply:	not necessary
Input impedance:	> 220 Ω
RS422 interfaces:	DB25 male connector incl. 2m cable, DB25 female connector incl. 2m cable
Housing / Dimensions:	Small plastic housing, 250 x 20 mm
Weight:	340 g
Packing list:	1 x RS422 Isolator, type 66050