

## Interface box IFB-1

OI11051DE/EN

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### Warning!

The interface boxes IFB... are not safety systems and should not be used as such systems. The devices are not be used for applications where personal safety is dependent on their function.

The operator of the higher-level overall system, e.g. a machine installation, is responsible for complying with the national and international safety and accident prevention regulations which apply to the specific use.

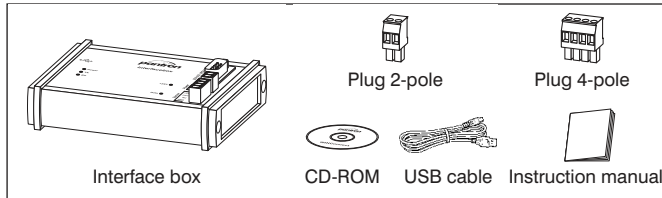
Mounting and electrical connections of the fork light barrier must be performed by a person trained to follow legal regulations and without voltage applied to the machine. The machine must be secured to prevent unintentional restart.

### • Product description

The interface box will be used for communication with Pantron's fork light barriers. The box has a USB 2.0 port (jack type B) to communicate with a PC.

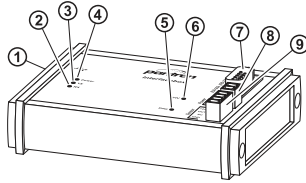
### • Scope of supply

The following parts are included in the scope of supply. If all parts are not included, please contact the vendor from which you brought the product.



### • Device description

- ① USB connector
- ② Data receive display (RX)
- ③ Data transmit display (TX)
- ④ Power on display (Power)
- ⑤ Communication display (Data)
- ⑥ External supply voltage display (+24V)
- ⑦ Connector RS232 (EIA 232)
- ⑧ Connector external supply voltage (Power)
- ⑨ Connector Sensors (Sensor)

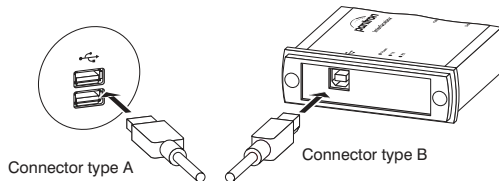


### • Software installation

Please load the communication software from our homepage ([www.pantron.de](http://www.pantron.de)). Install the USB driver and the interface communication program WINConnect. For further information please see the installation instructions from the software.

### • Connect interface box with a Computer

Connect the interface box to the computer with the included USB cable.



### • Connect fork light barrier (FS...)



### ATTENTION!

The plug must be connected or removed without power applied.

### a) Connect external supply voltage

The external supply voltage must be +24 VDC with a tolerance of ±10 %.

Connector	Symbol	Description
	PIN 1	+24V External supply voltage +
	PIN 2	GND External supply voltage 0V

### b) Connect fork light barrier

The fork light barrier will be connected with the 3-pole circular plug connector. The PIN connection is described in the operating instructions of the fork light barrier.

	Connection	Symbol	Description
	PIN 1	+24V	Operation voltage +
	PIN 2	OUT	Switching output
	PIN 3	NC	NC
	PIN 4	GND	Operation voltage 0V

### c) Select the communication mode at the fork

Switch on the external voltage supply. The external supply voltage display ⑥ (+24V) lights green. Select the communication mode by a long keypress (> 2 seconds) of both buttons at the fork.

### • Servicing and troubleshooting

#### Cleaning of the case

Clean the case with a soft tissue and a mild cleaner if required. Switch off the device before starting cleaning.

#### Troubleshooting

If the fork light barrier is not working correctly, check the following points:

Problem	possible reason
Power display ④ is not lighting	- USB cable is not connected correctly. - Driver is not installed correctly.
Communication display ⑤ is lighted permanently	- Programming mode is not selected at the sensor (see sensor instructions) - OUT connection is short circuited
External supply voltage display ⑥ is not lighting (only sensors)	- External voltage is not connected. - External voltage is outside the tolerance.

### • Technical Data

USB connection	Plug type B
Current consumption	max. 100 mA
External supply voltage	Plug with screw terminals 2-pole
Input voltage	+21,6 V DC ... +26,4 V DC
Current consumption	200 mA
Terminal cross-section	0.14 - 2.5 mm <sup>2</sup>
Sensor connection	Plug with screw terminals 4-pole
Terminal cross-section	0.14 - 2.5 mm <sup>2</sup>
Housing material	Aluminium black anodized
Protection class	IP10
Operating temperature	-10 °C ... +60 °C (+14 °F ... +140 °F)
Storage temperature	-25 °C ... +80 °C (-13 °F ... +176 °F)
Dimensions (LxWxH)	114 x 85 x 32 mm (without plug)

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All technical specifications refer to the state of the art 05/2011, they are subject to modifications.