

Interface LBI-UB

Data Sheet

Interface LBI - UB



Introduction

Mobile vehicle testing requires to trigger the measurements. Many small systems for longitudinal speed and distance measurement provide only one trigger input, where as often two different trigger sources are used.

The interface LBI-UB offers two different trigger inputs. The user selects the active input and than can execute test runs only one track.

The interface LBI-UB is especially designed to connect directly to the signal electronic of contactless sensors for speed and distance measurement.

The interface LBI-UB also acts as power splitter. The interface is directly connected to a 12V DC or 24V DC power source (e.g. vehicle battery). The two outouts provide each up to 10A and are protected by automatic fuses. The outputs are dedicated to serve as power source for the sensor and the notebook / PC.

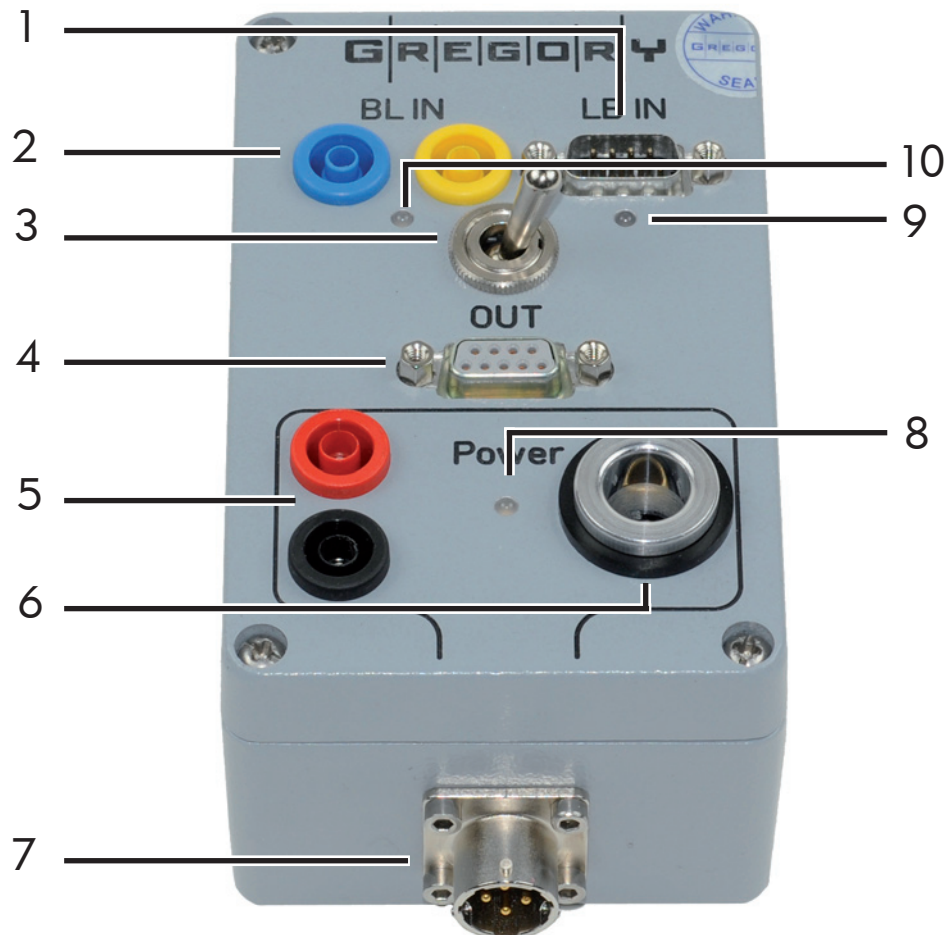
Image 1



Image 1



Description



1. Light barrier input
2. Break light input
3. Input select switch
4. Signal output to trigger input connector
5. Power output 4mm banana sockets, max. 10A
6. Power output for Bosch vehicle plug, max. 10A
7. Power input, connects to 12V DC or 24V DC power source (e.g. vehicle battery)
8. Status LED power output
9. Status LED LB IN
10. Status LED BL OUT

Operation

- Connect the break light trigger source:
 - blue: negative potential - ground
 - yellow: positive potential - signal
- Connect the light barrier trigger source
- Connect the output to the data acquisition trigger input
- Set input select switch to trigger source
- Connect sensor power cable
- Connect PC power cable
- Connect power input with battery

WARNING!

Check the correct voltage level! The power output voltage will have the same voltage as the power input!

Connecting the power input with the battery will power the complete data acquisition system!

Mounting

Mount the interface in any direction. Take care, that the user has easy access to the switch. Prepare, that during driving the interface can not slip or fall to prevent harm to human or damage.

Order Numbers

Main Unit:

- 104632: Interface LBI-UB with power cable and signal cable

Accessoires

- 104636: Replacement interface LBI-UB without accessories
- 104612: Power cable, 4m, MIL-socket to battery clamps
- G-K1081: Signal cable, 1.8m, 9Pin DSUB, male-female, 1:1

Technical Data

Power input voltage	10 ... 30V DC
Power input current	max. 20A
Power output voltage	equals power input voltage
Power output current	max. 2x10A
Fuse	automatic for each output, resets automatically after short time period
LB IN	PIN 5 GND PIN 4 Power (10 ... 30V DC), max: 0.15A, output PIN 8 Signal (10 ... 30V DC), max: 0.15A, input active low
BL IN	blue: GND yellow: Signal, 0.01A up to 0.03A (7V DC ... 30V DC), active high
OUT	PIN 5 GND PIN 4 Power input (10 ... 30V DC), max: 0.2A PIN 8 Signal output (10 ... 30V DC), max: 0.1A, active low
Status LED BL IN and Status LED LB IN	off: not activated green: ready yellow: waiting for reset red: trigger active
Status LED power out	off: no output power green: both outputs on yellow: - banana sockets power fail - BOSCH sockets on red: - banana sockets on - BOSCH sockets power fail