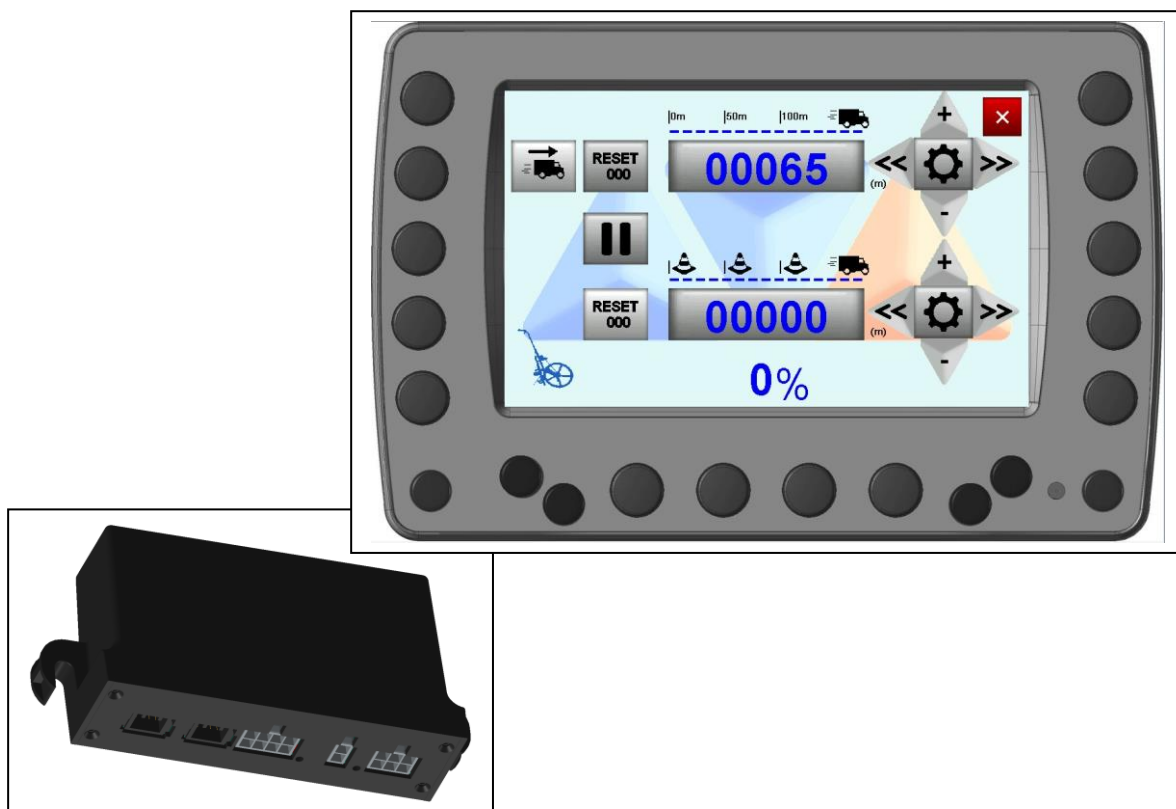




BLL TOPOMETER

(Configuration 13182)



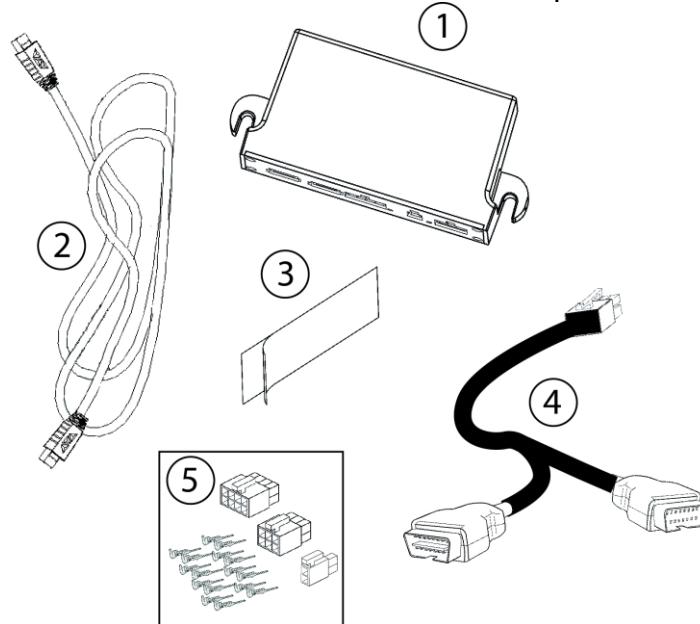
PRESENTATION

The BLL MERCURA topometer system is used to measure the distances travelled by the service vehicle and to define "tops" of inter-distances when laying Lübeck cones.

It is a complementary equipment to the MERCURA fairing units with CAN technology installed on the vehicles.

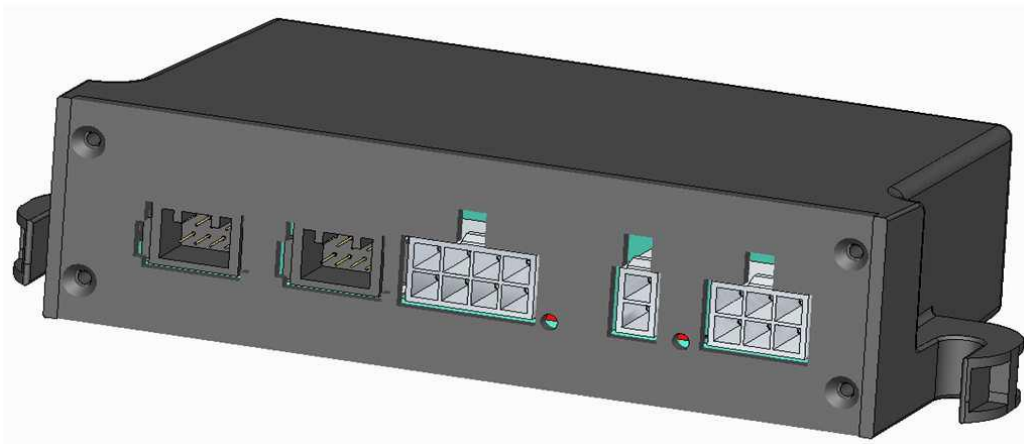
1. COMPOSITION

It is integrated on the MERCURA multiplex network between the XXL graphic control box and the roof assembly. Its installation is made easier thanks to a kit composed of :



1. CAN-CAN Interface Module BLL (27826)
2. CAN BUS Beam Length 4.5m (23858)
3. Double-sided mounting for Interface Module
4. BLL Beam Topometer (30448)
5. Connector kit

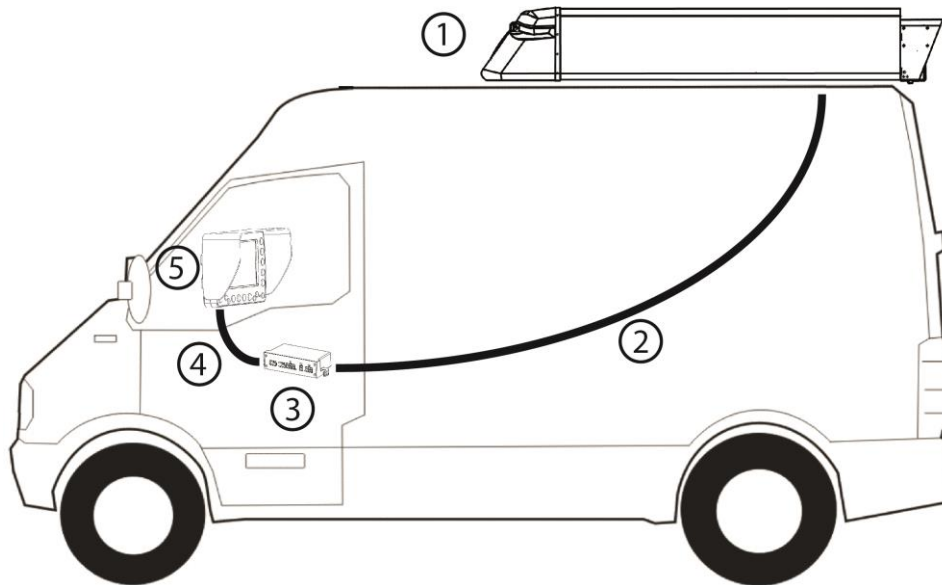
2. CHARACTERISTICS OF THE BLL MODULE



- Operating voltage: 6V to 30V DC
- Consumption: 80mA between 12.5V and 30V
- EMC approval in accordance with 10R04 under No. "E2 04*11026".
- Operating temperature : -40°C to +85°C
- Weight 40g
- Dimensions WxHxD: 140x33x65

3. INSTALLATION ELEMENTS

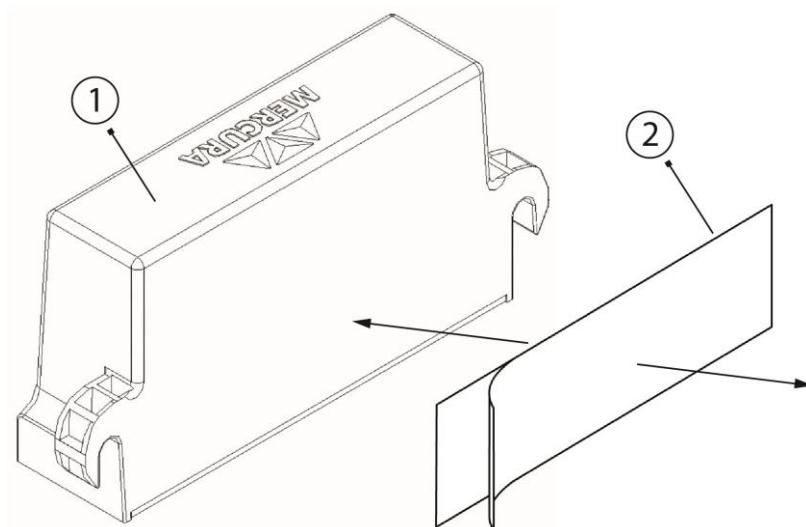
3.1. GENERAL OVERVIEW OF THE NETWORK



1. MERCURA fairing assembly
2. CAN BUS between the fairing assembly and the BLL module
3. BLL module
4. CAN BUS between the BLL module and the XXL control panel
5. XXL graphic control panel

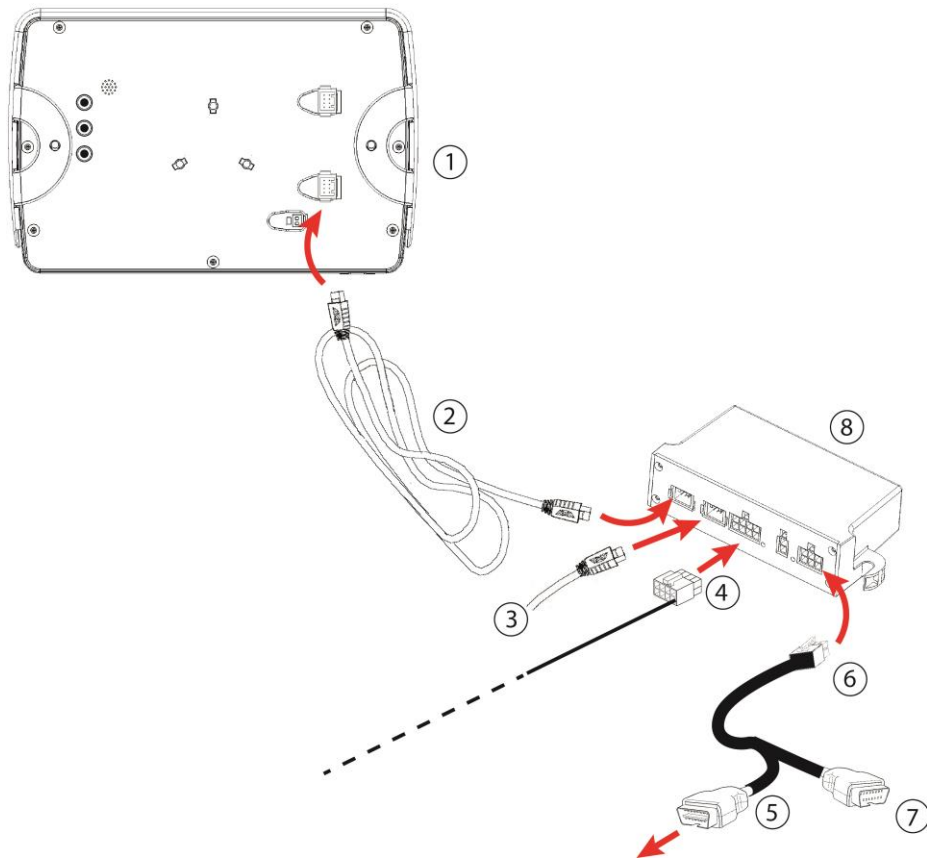
3.2. INSTALLATION OF THE BLL

The BLL interface module can be installed inside the vehicle, behind the dashboard or in the glove compartment, using the double-sided mounting bracket supplied. The location must be flat enough for the module to be installed. This location must be chosen close to the vehicle's ODB socket so that the beam can connect the 2 elements.



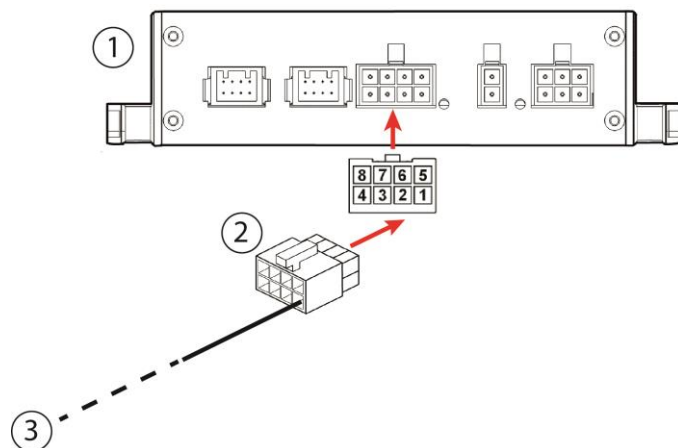
1. Module interface BLL
2. Fixation double-face

3.3. INTERCONNECTIONS



1. *XXL control panel*
2. *CAN BUS Beam Length 4.5m*
3. *BUS bundle from the streamlined assembly*
4. *8-way connector for "+APC" connection*
5. *To vehicle OBD connector*
6. *BLL Topometer harness with 6-way connector*
7. *OBD connector available for diagnostic case*
8. *CAN-CAN Interface Module BLL*

3.4. WIRING OF THE INFORMATION "+APC" (+ After-Contact or + Ignition)

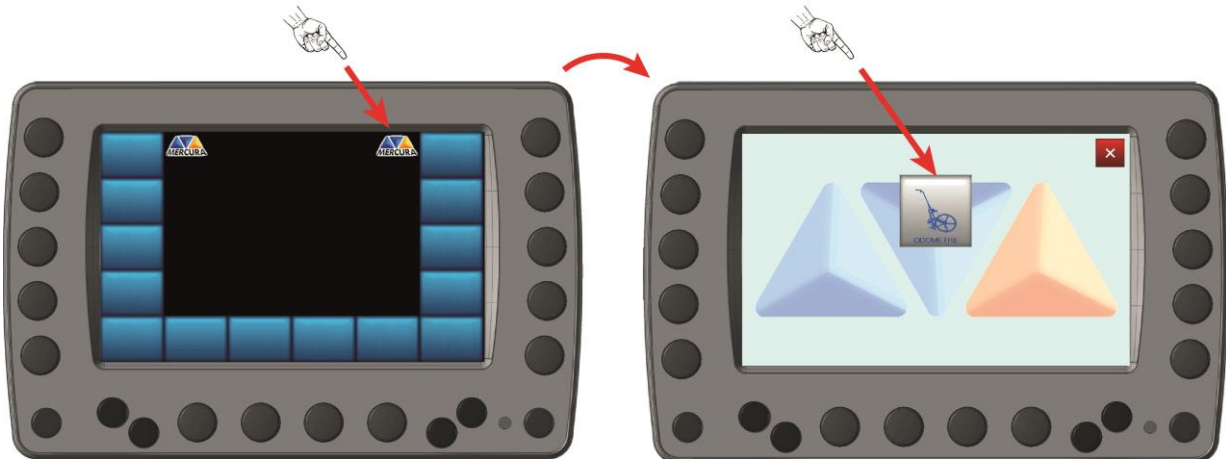


1. *BLL module*
2. *8-way connector*
3. *Information "+APC" to be connected on pin n°1*

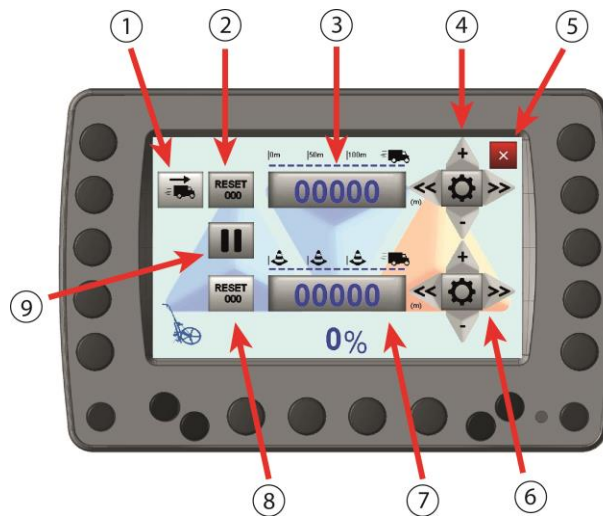
4. USING

The topometer works as soon as the system is switched on, provided the vehicle engine is running. To access the topometer menu, follow the instructions below :

4.1. ACCESS TO THE TOPOMETER MENU



4.2. DESCRIPTION OF THE TOPOMETER MENU

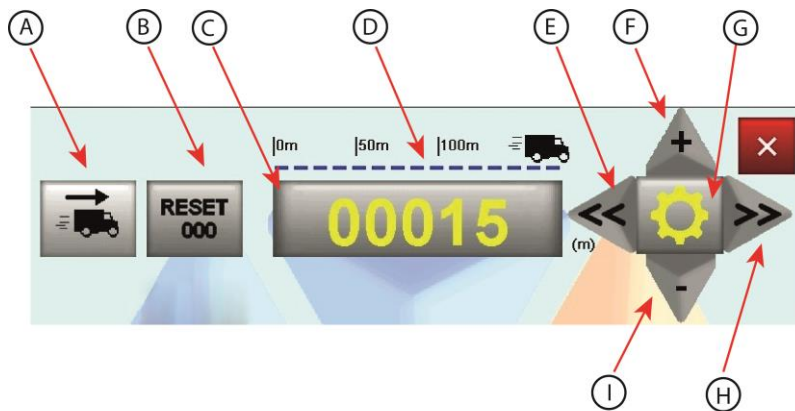


- ☐ 1. Selection of counting direction: INCREMENT or DECREMENT
- ☐ 2. Reset DISTANCE INDICATOR to zero
- ☐ 3. DISTANCE INDICATOR in metres (5-digit indication)
- ☐ 4. Digit selection and DISTANCE value increment/decrement keypad.
- ☐ 5. Exit the page
- ☐ 6. Digit selection and increment/decrement pad for BANKING value selection
- ☐ 7. Distance indicator in meters (5-digit indication)
- ☐ 8. Reset the distance counter to zero
- ☐ 9. Operation control

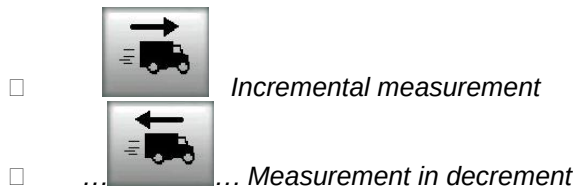
- ☐  Pause
- ☐ ...  ...On

4.3. DETAIL ZONE INDICATION DISTANCE

Certain operational conditions require the programming of fixed distances. The DISTANCE menu allows you to program the value.

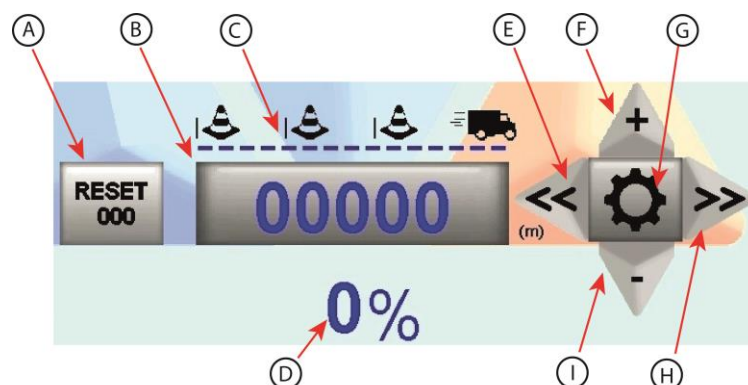


A. Selecting the direction of measurement :



- B. Resetting the counter to zero
- C. 5-digit distance display area
- D. Metric scale of the meter
- E. Moving the digit selection to the left
- F. Incrementing of the digit value (from 0 to 9)
- G. Activating / Deactivating the setting mode
- H. Moving the digit selection to the right
- I. Decrementing of the digit value (from 9 to 0)

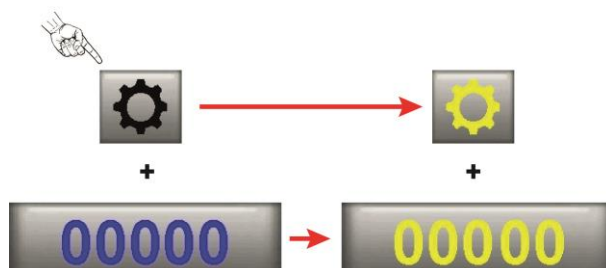
4.4. DETAIL ZONE INTER-DISTANCE INDICATION



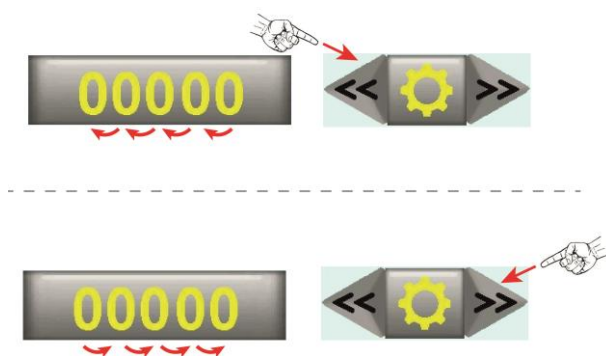
- A. Reset the counter to zero
- B. Inter-distance display area
- C. Distance scale
- D. Indication of the percentage of inter-distances reached
- E. Moving the digit selection to the left
- F. Incrementing of the digit value (from 0 to 9)
- G. Activating / Deactivating the setting mode
- H. Moving the digit selection to the right
- I. Decrementing of the digit value (from 9 to 0)

4.5. OPERATION OF THE ADJUSTMENT PADS

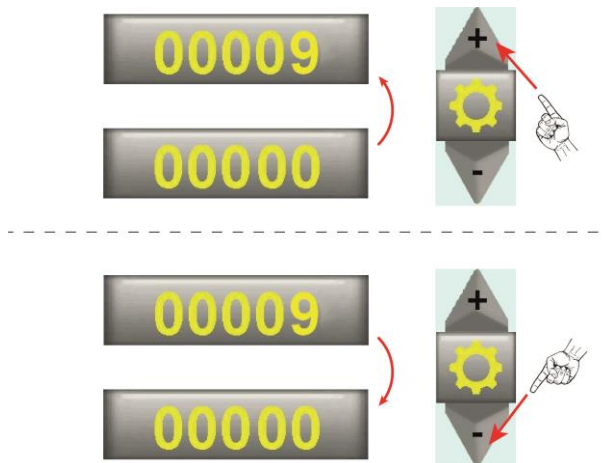
■ ENTER SETTING MODE



■ DIGIT SELECTION



□ INCREMENTATION / DECREMENTATION DIGIT



□ EXIT FROM SETTING MODE

