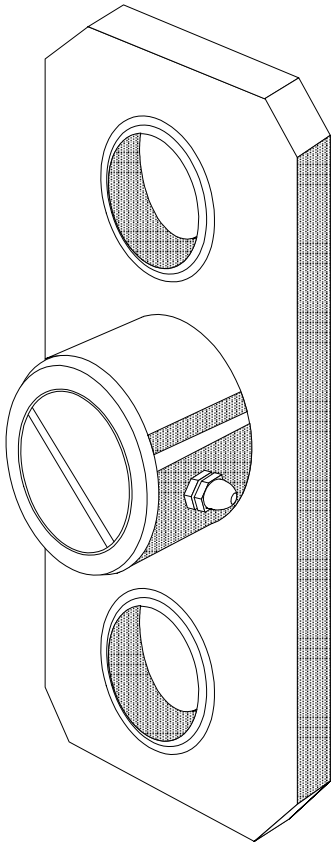
Electronic load cell
HF 10



Equipment in accordance with CE directives

Operating and Maintenance Instructions

GENERAL WARNING

1- Reading and fully understanding the technical data sheets relating to this equipment is essential for the best use of this high technological material that you have received. All the technical data sheets are available on request.

2- Before installing and operating Dynasafe® equipment it is essential for the safe and correct operation of the material that this manual be read and fully understood and that all the instructions be followed. This manual should be made available to every operator. Extra copies of this manual will be supplied on request.

3- The installation and operation of Dynasafe® equipment should only be carried out in accordance with the appropriate health and safety at work regulations.

4- Never apply to the Dynasafe® a load or an effort in excess of the working load limit, and never use it for an operation for which it is not intended.

5- TRACTEL SAS declines any responsibility for the consequences of dismantling or altering the machine by any unauthorised person.

6- Dynasafe® equipment must not be used in explosive atmospheres.

7- Dynasafe® equipment must only be used in a system designed for lifting people after ensuring that the appropriate operating coefficients have be used in accordance with the current regulations.

8- Prior to the use of Dynasafe® equipment with complementary equipment relaying the signals to an operating system, the user or installer of this system should carry out a specific risk analysis of the operating functions. The appropriate measures should be taken to obviate the risks identified.

INSTALLATION OF ELECTRONIC LOAD CELL HF 10

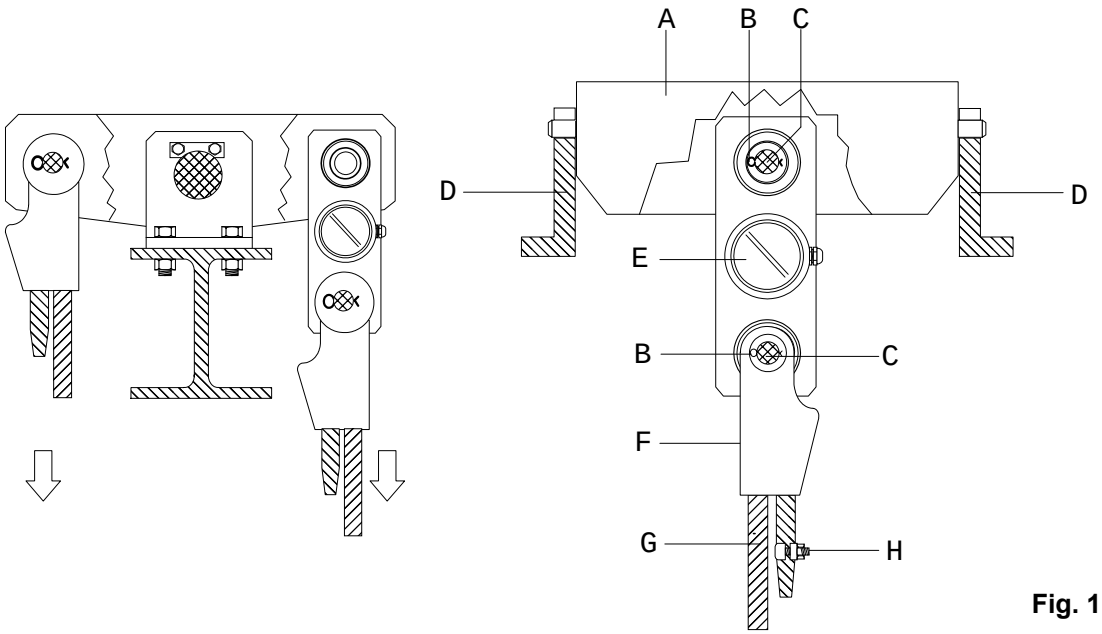


Fig. 1

General set up for the load cell

A – Suspension bar
B – Safety pin
C – Anchor pin
D – Bracket
E – Electronics housing
F– Wedge end fitting
G – Wire rope
H – Wire rope clamp

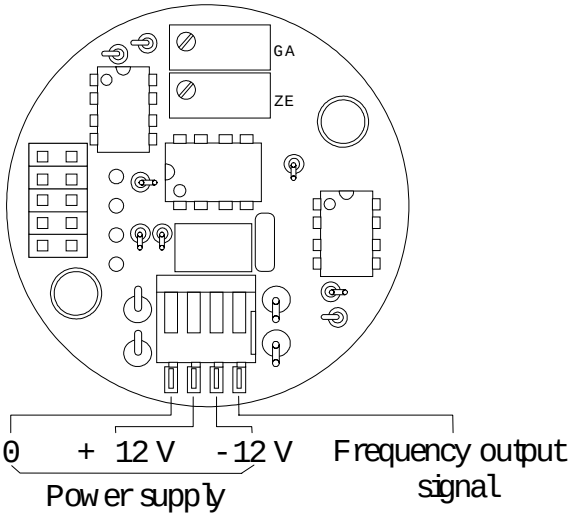
Procedure for installation of the load cell

- Mount the load cell on the suspension bar as illustrated above (if necessary, drill another hole which must remain in line with any sheaving).
- Ensure that the diameter of the anchor pin used is compatible with the anchor point of the load cell (if necessary, use washers or spacers on the load cell to ensure that it is correctly aligned).
- Fit a safety pin at the top to keep it in place.
- Fit a wedge end fitting to the dead end of the wire rope.
- Attach the wedge end fitting to the lower anchor point of the load cell using an appropriate anchor pin.
- Operate the lifting system until it reaches the upper limit switch to ensure that the sheaving does not foul the wedge end fitting. If this is the case, readjust the upper limit switch so that there is sufficient distance between the wedge end fitting and the sheaving. Also ensure when the sheaving is at the upper point that the load cell is free of any lateral forces and is correctly aligned with the lifting wire rope (Lateral forces could seriously damage the load cell).
- Correctly fit the electric cable between the load cell and the control box. Secure the cable to the frame using nylon collars.

Connection : see the monitor manual or display associated with the load cell.

LOAD CELL CONNECTION

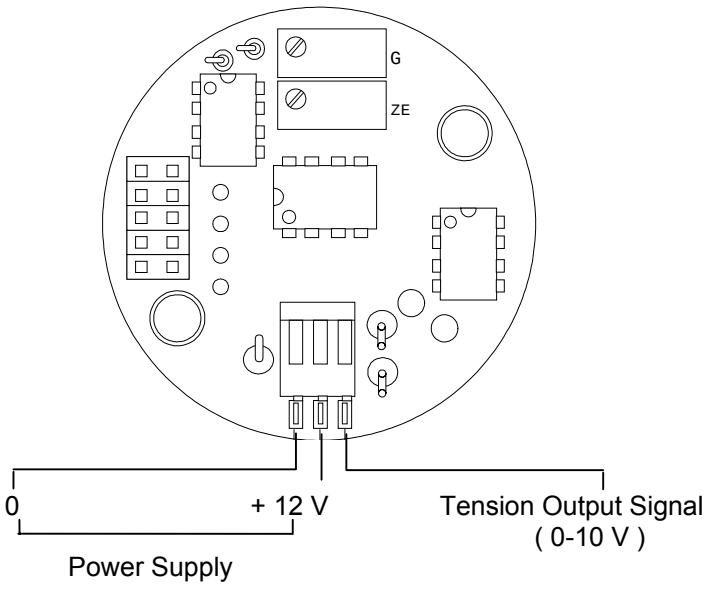
1) Frequency output (Standard Dynasafe)



Electronic equipment combined with:

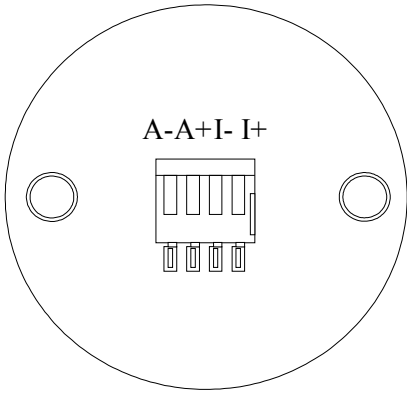
- HF 80/1 and HF80/2 monitors
- HF 87/1 – HF 87/2 – HF 87/3 displays
- HF83/2 and HF83/4 sum units

2) Tension output (Option)



LOAD CELL CONNECTION

3) Strain gauge bridge output (Option)

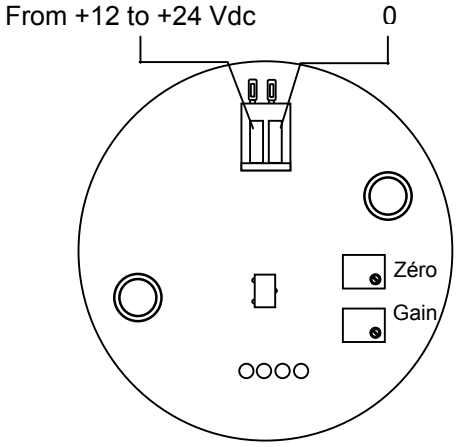


If the axle is kitted out of a plug (LUMBERG), connectors are marked as following :

N°1	BROWN	A+
N°2	GREEN	A-
N°3	YELLOW	M+
N°4	WHITE	M-

Remark : Electric connection between the load cell and control equipment will have to be made with a shielded cable (4 x 0,34 mm^2).

4) 4-20Amps 2 wires output (Option)



Possible power supply between 12 and 24 Vdc.

NOTES :