

Models and dimensions :

Model	dia. of wire rope (d) mm	maximum capacity daN	Dimensions (mm)		
			a	b	width
HF35/1	5 - 11	2000	110	49	60
HF35/2	12 - 17	3000	130	59	60
HF35/3	18 - 26	6000	180	69	68
HF35/4	27 - 36	12000	240	89	78

Load cell identification :

Serial number : see Price list

Associated equipment :

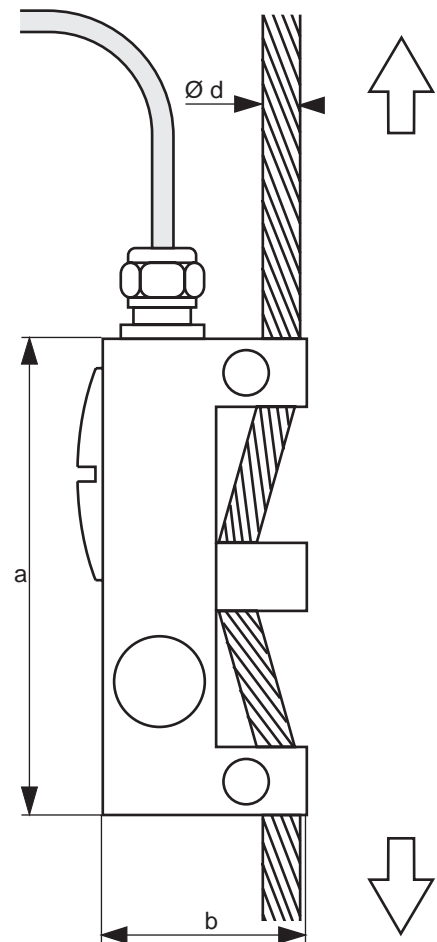
HF35 electronic load cells are normally used in conjunction with the intelligent monitors and scoreboard displays:

- HF80/1 intelligent monitor*
- HF80/2 intelligent monitor with F.E.M. control* (Sets out the working group of the overhead crane according to the standards (9.511 and 9.755 set out by the F.E.M. – Fédération Européenne de Manutention).
- HF87/./ Models of scoreboard displays incorporating the intelligent monitor or the intelligent monitor with F.E.M. control**.

*see technical data sheet T2023GB.

**see technical data sheet T2024GB.

For other requirements not set out above, please contact us.



Application :

This electronic load cell has been designed for measuring the effort applied in lifting systems which have a dead end wire rope. The analog signal may be used by the user depending on his requirements e.g. :

– for monitoring one or more trip points or thresholds (slack wire rope, intermediate trip points, warning trip points, overload lifting, etc. . .).

– for displaying the load applied.

This load cell is recommended for its simplicity and quick fitting capability.

Operating principle :

The load cell operates by the movement of metal within its elastic limits. The deviation of the wire rope exerted through the load cell produces a force proportional to that exerted by the wire rope. The strain gauges integrated in the load cell measure this force giving an electrical signal relative to the load applied. The resulting signal may then be passed via a monitor mounted in the control box or via a display mounted on the crane itself.

Technical specifications :

Maximum capacity : see table on page 2.

Overload coefficient : 1.5

Accuracy : $\pm 0.5 \%$

Temperature range : from -30°C to $+80^{\circ} \text{C}$.

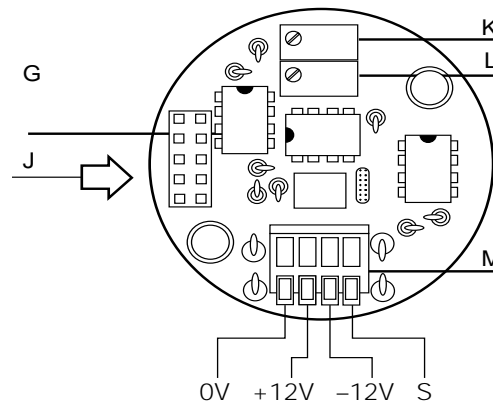
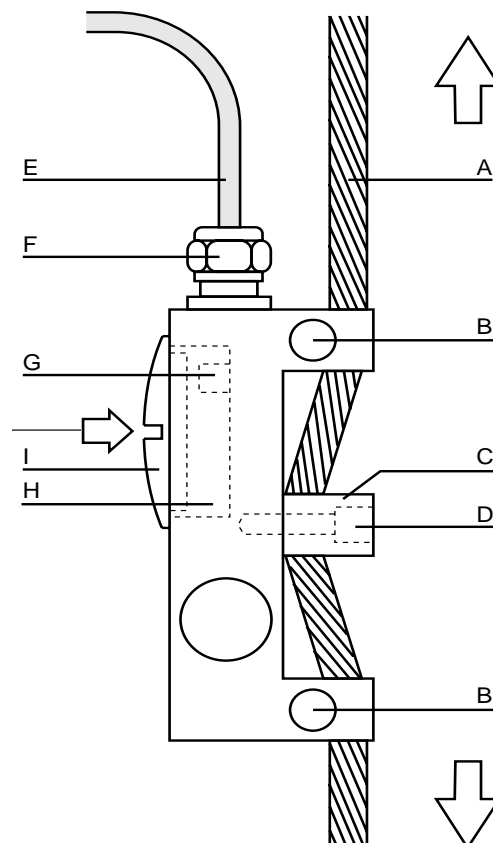
Temperature compensation : from -20°C to $+60^{\circ} \text{C}$.

Material : anodised aeronautical grade aluminium

Protection class : IP65

Power supply : from the associated equipment (monitor or display)

Output signal : from 500 to 10.000 Hertz. The electrical signal produced by the strain gauges within the load cell is a frequency signal in Hertz (Hz). This allows the transfer of the signal to the associated equipment without risk of interference. The load cell is supplied with 3 m of cable (4 x 0.25 armoured) for wiring to the connection terminals (G).



- A - Wire rope
- B - Support
- C - Wire rope fixing bracket
- D - Fixing screw for bracket
- E - Electric cable
- F - Connection plug
- G - Diagnostic socket
- H - Electronics housing
- I - Inspection cover
- J - Electronics
- K - Gain potentiometer
- L - Zero potentiometer
- M - Connection terminal