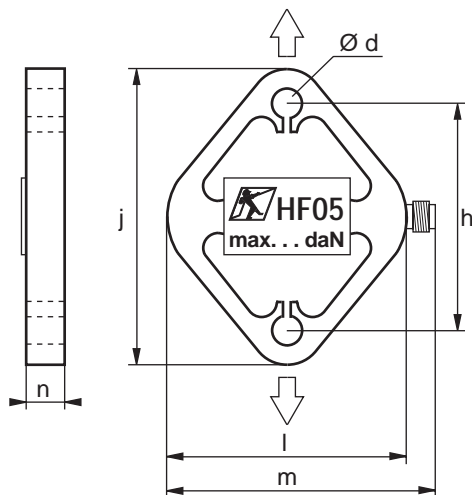


Example of mounting on an overhead crane:

- A - Suspension bar
- B - Safety pin
- C - Anchor pin
- D - Bracket
- E - Adjustable screw
- F - Wire rope
- G - Connecting plug
- H - Wedge end fitting



**Application:**

This mechanical load cell has been designed to provide a trip point in lifting systems which have a dead end wire rope. The trip point provides a signal that the user may employ depending on his requirements.

- for load limiting in lifting systems
- to limit the speed as a function of the load on traversing
- to limit the effort applied for pulling

This load cell is preferable for lifting applications and where it is essential to minimise the lost headroom.

**Operating principle:**

The load cell operates by the movement of metal within its elastic limit. This movement acts on an adjustable high precision microswitch, giving an "all-or-nothing" signal. Movement is limited by the contact of parts 1 and 2.

**Technical specifications:**

Maximum capacity: see table below

Adjustment system:

fine thread screw (5 mm allen key)

Measuring cell: high precision microswitch

Trip point power: max. 48 Vac / 25 mA

Overload coefficient: 2

Safety coefficient: 5

Repeatability of cut-out:  $\pm 0.5\%$

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

Connection by plug (2 m lead supplied)

Material: zinc plated, treated alloy steel

Protection class: IP40

**Options:**

- 2nd trip point
- Protection class IP65
- Stainless steel cell body

**Models and dimensions:**

code	model	max. cap. daN	dimensions mm					
			d	h	j	l	m	n
38508	HF 05/1	500	10.2	76	100	81	91	12
38518	HF 05/2	1250	12.5	76	104	83	93	12
38528	HF 05/3	2000	16	85	123	95	105	16
24748	HF 05/4	3200	20,4	92	139	105	116	20
24758	HF 05/5	5000	24	112	169	125	136	24
24768	HF 05/6	8000	30.5	120	180	235	245	30
24778	HF 05/7	12000	36	144	215	280	290	36

**Associated equipment:**

The HF05 mechanical load cells are normally used in conjunction with the HF85/1 monitor, but may also be used with a PLC or a simple automatic relay.

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