



**Components**

- A - Connecting cable plug.
- B - Washer.
- C - Axle pin.
- D - Locking ring.
- E - Load cell body.
- F - Trip point Tare screw.
- G - Locking nut.
- H - Central fixing bracket.
- I - Safety washer.
- J - M6/M8 screw.
- K - Fixing bracket plate.
- L - Rubber compression pad.
- M - Lifting wire rope.
- N - Switch fixing screw

**Identification:**

**Application:**

This mechanical load cell has been specially designed to control one safety trip point on low and medium capacity overhead cranes.

**Operating principle:**

The load cell operates by the movement of metal within its elastic limits. Deviation of the lifting wire rope around the load cell produces a force proportional to the load applied. The load cell operates a microswitch, to give an "all-or-nothing" signal.

**Technical specification:**

Installation: directly on the dead end wire rope  
 Load cell: 1 integrated microswitch  
 2 contacts: 1 N.O. (open) 1 N.C. (closed)  
 Trip point power: max. 220 VAC.  
 Amperage of trip point: A type: 4 A  
 B type: 25 mA  
 Connections: A type: 4 conductor electrical cable  
 B type: 2 conductor electrical cable  
 Length of connecting cable: 6' (2 m) with plug  
 Tare adjustment: fine thread screw  
 Resolution: 20 lbs. (10 daN)  
 Hysteresis: 500 lbs. (250 daN)  
 Temperature range: -20 to 175° F (-30 to 80° C)  
 Protection class: I.P 55  
 Material of load cell: aluminium alloy  
 Finish: anodized  
 Maintenance: none required other than keeping it clean.

Type	Code	Wire rope Ø in.(mm)	Capacity lbs.(daN)	Dimensions: inches (mm)		
				Length	Width	Thickness
HF 32/1/A	0420600	3/16 - 5/8 (5-16)	500-6000 (250-3000)	2 3/4 (70)	5 7/8 (150)	1 9/16 (40)
HF 32/2/A	0420601	11/16 - 1 (17-26)	600-12000 (300-6000)	3 7/8 (98)	7 7/8 (200)	2 (50)
HF 32/3/A	0420602	1 1/16 - 1 3/8 (27-36)	2000-24000 (1000-12000)	5 7/16 (138)	11 (280)	2 3/8 (60)
HF 32/1/B	0420603	3/16 - 5/8 (5-16)	100-6000 (50-3000)	2 3/4 (70)	5 7/8 (150)	1 9/16 (40)
HF 32/2/B	0420604	11/16 - 1 (17-26)	200-12000 (100-6000)	3 7/8 (98)	7 7/8 (200)	2 (50)
HF 32/3/B	0420605	1 1/16 - 1 3/8 (27-36)	500-24000 (250-12000)	5 7/16 (138)	11 (280)	2 3/8 (60)

The B type has to be used with a monitor HF 85 in order to amplify the microswitch signal.  
 The B type with monitor HF 85 is recommended when the crane dynamics effects should be absorbed.