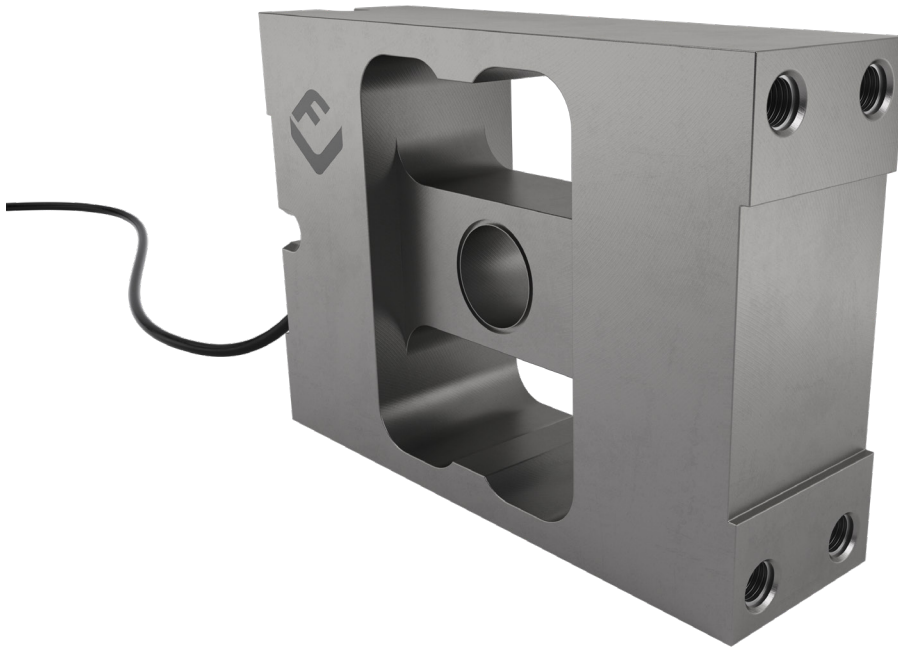


PC6H single point load cell



product description

The PC6H is designed for rear-end bin lifting systems on waste collection vehicles. Certified to both OIML and NTEP standards the PC6H is the ideal choice for trade approved waste collection applications. The fully welded, stainless steel design and rugged construction overcomes the problems associated with alternative aluminium load cell based systems.

Alternative load cell sizes and bolt-hole configurations are available in the Flintec bin-lift load cell range – see our PC2H, PC3H, PC5H, and PC7H single point load cells.

applications

Rear end (REL) bin lifting systems for waste collection vehicles (RCV's)

options

Variable cable lengths

Can be supplied with connectors

accessories

Compatible range of electronics

key features

Capacity of 2,000kg

Stainless steel construction with a bead-blasted surface

Hermetically sealed to IP68/IP69K

Very rugged construction

Off-centre load adjusted

High accuracy

For platform sizes of up to 1,200mm x 1,200mm

approvals

OIML approval to C3 (Y=21,900)

NTEP approved to 3,000 intervals, Class III, single cell applications



RoHS
compliant



 **flintec**
quality + precision

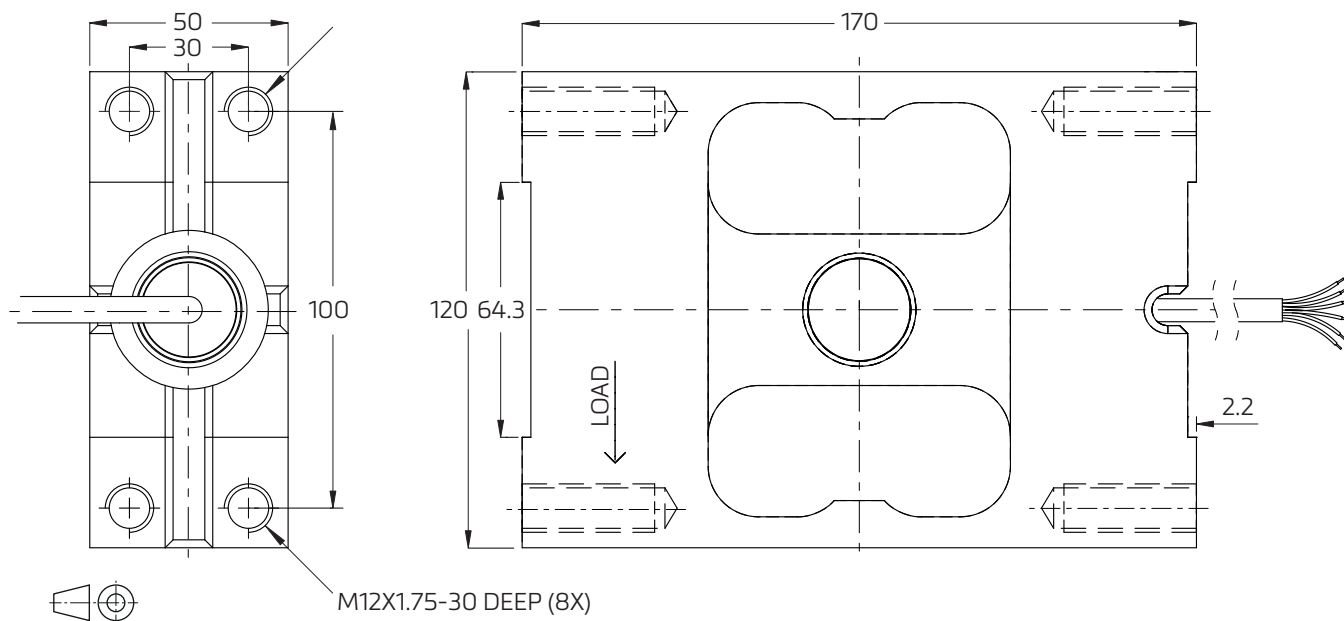
specifications

| | | | |
|---|--------------|--|------------------|
| Maximum capacity (E_{max}) | kg | 2,000 | |
| Accuracy class according to OIML R60 | - | GP | C3 |
| Maximum number of verification intervals (n_{LC}) | - | n.a | 3,000 |
| Minimum load cell verification interval (V_{min}) | - | n.a | $E_{max}/21,900$ |
| Temperature effect on minimum dead load output (TC_0) | %*RO/10°C | ± 0.0400 | ± 0.0140 |
| Temperature effect on sensitivity (TC_{RO}) | %*RO/10°C | ± 0.0200 | ± 0.0100 |
| Combined error | %*RO | ± 0.0500 | ± 0.0200 |
| Non-Linearity | %*RO | ± 0.0400 | ± 0.0166 |
| Hysteresis | %*RO | ± 0.0400 | ± 0.0166 |
| Creep error (30 minutes)/DR | %*RO | ± 0.0600 | ± 0.0166 |
| Rated output (RO) | mV/V | 2±0.1% | |
| Calibration in mV/V/Ω | % | ±0.05 | |
| Zero balance | %*RO | ±5 | |
| Excitation voltage | V | 5...15 | |
| Input resistance (R_{LC}) | Ω | 1,100±50 | |
| Output resistance (R_{out}) | Ω | 1,000±2 | |
| Insulation resistance (100 V DC) | MΩ | >5,000 | |
| Safe load limit (E_{lim}) | %* E_{max} | 200 | |
| Ultimate load | %* E_{max} | 300 | |
| Safe side load | %* E_{max} | 100 | |
| Maximum off-centre loading effect | %*RO/mm | ±0.000125 | |
| Maximum off-centre distance at maximum capacity | mm | 100 | |
| Compensated temperature range | °C | -10...+40 | |
| Operating temperature range | °C | -40...+80 | |
| Load cell material | - | Stainless steel 17-4 PH (1.4548) | |
| Sealing | - | Complete hermetic sealing; cable entry sealed by glass to metal header | |
| Protection according EN 60 529 | - | IP68 (up to 2m water depth)/IP69K | |
| Packed weight | kg | 7.5 | |

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with $p_{LC} = 0.7$.

product dimensions (mm)



wiring

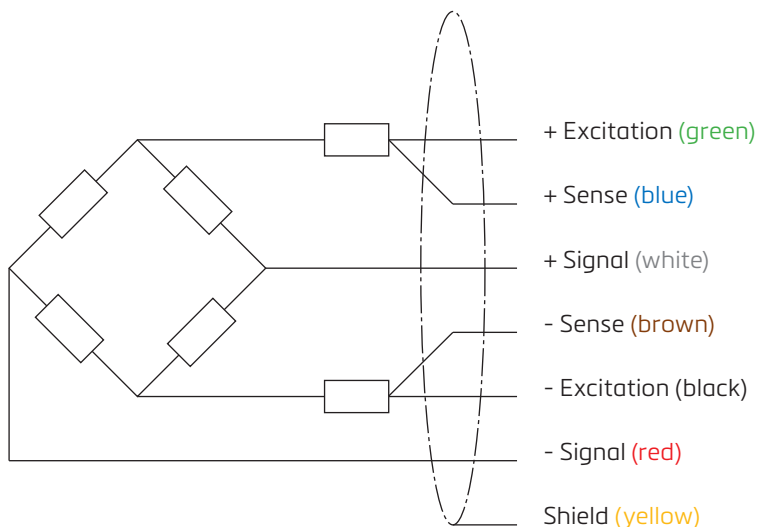
The load cell is provided with a shielded, 6 conductor cable (AWG 26)

Cable jacket: polyurethane

Cable length: 5m

Cable diameter: 5.8mm

Shield is not connected. On request, shield can be connected to the element.



Specifications and dimensions are subject to change without notice.

