

PC7H single point load cell



product description

The PC7H is a 1,000kg capacity single-point load cell designed for rear-end bin lifting systems on waste collection vehicles. Certified to both OIML and NTEP standards, it's an ideal choice for trade approved applications. It's rugged, stainless steel construction is hermetically sealed to IP69K making it reliable at performing in harsh environments, and avoids issues that can occur with aluminium alternatives.

Alternative load cell size and bolt hole configurations are available in the Flintec bin-lift load cell range – see PC2H, PC3H, PC5H and PC6H single point load cells.

applications

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

options + accessories

Variable cable lengths

Can be supplied with connectors

Compatible range of electronics

key features

Capacity of 1,000kg

Stainless steel construction with a bead-blasted surface

Hermetically sealed to IP68/IP69K

Rugged construction

Off-centre load adjusted

High accuracy

approvals

OIML approval to C2 (Y = 7,400)

NTEP approval to 3,000 intervals, Class III, for single cell applications



RoHS
compliant



 **flintec**
quality + precision

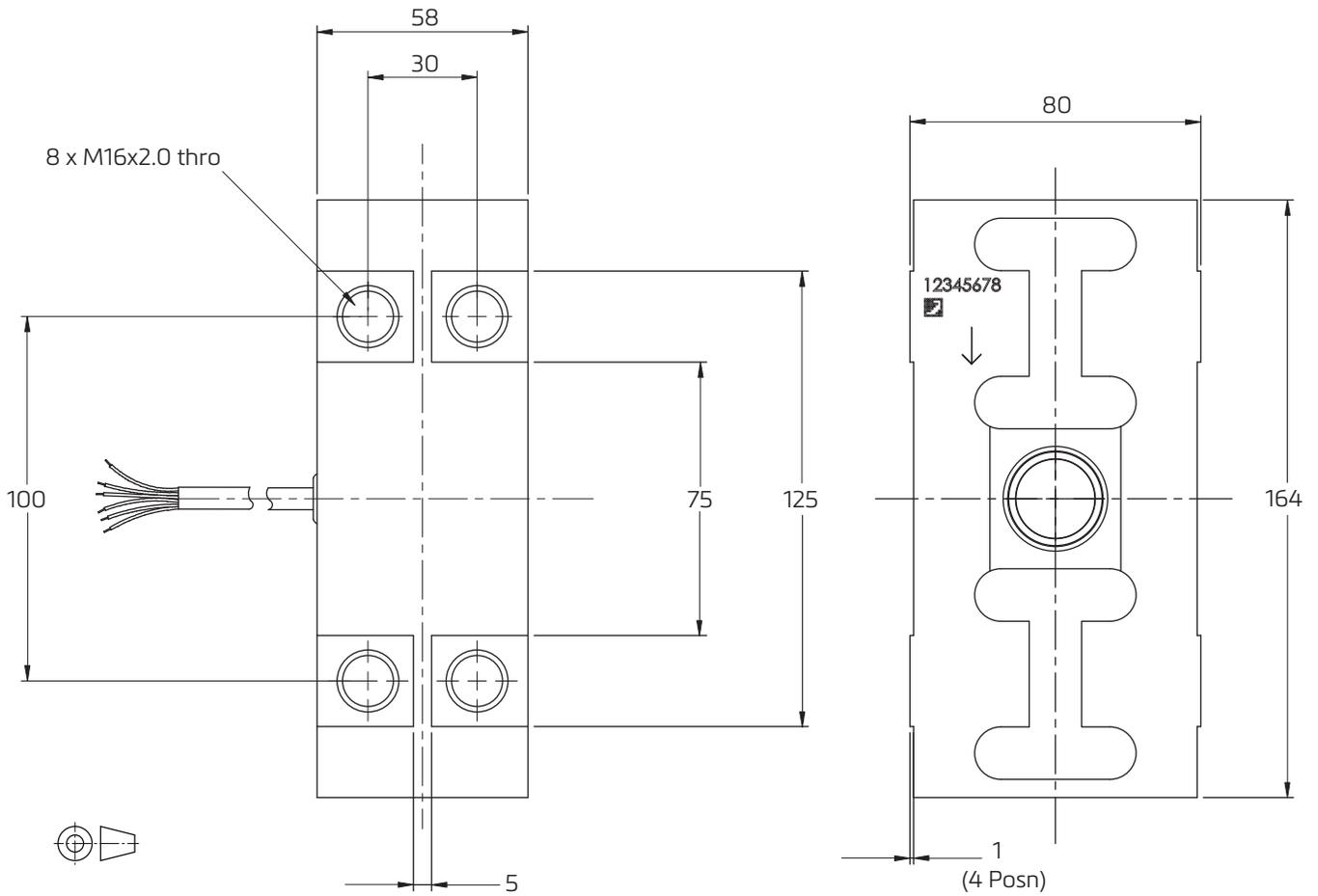
specifications

| | | | |
|-----------------------------------------------------------|--------------|------------------------------------------------------------------------|-----------------|
| Maximum capacity (E_{max}) | kg | 1,000 | |
| Minimum dead load | kg | 0 | |
| Accuracy class according to OIML R60 | - | GP | C2 |
| Maximum number of verification intervals (n_{LC}) | - | n.a | 2,000 |
| Minimum load cell verification interval (v_{min}) | - | n.a | $E_{max}/7,400$ |
| Temperature effect on minimum dead load output (TC_0) | %*RO/10 °C | ±0.04 | ±0.0140 |
| Temperature effect on sensitivity (TC_{RO}) | %*RO/10 °C | ±0.02 | ±0.0120 |
| Combined error | %*RO" | ±0.05 | ±0.030 |
| Non-Linearity | %*RO | ±0.04 | ±0.025 |
| Hysteresis | %*RO | ±0.04 | ±0.025 |
| Creep error (30 minutes)/DR | %*RO | ±0.06 | ±0.025 |
| Rated output (RO) | mV/V | 1 ± 0.1% | |
| Calibration in mV/V/Ω | % | ±0.05 | |
| Zero balance | %*RO | ≤ ±5 | |
| Excitation voltage (AC/DC) | 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} | 400 | |
| Safe side load | %* E_{max} | 100 | |
| Maximum off centre loading effect | %*RO/mm | ±0.0005 | |
| Maximum off centre distance at maximum capacity | mm | 600 | |
| 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 | |
| Weight | kg | 3.61 | |

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

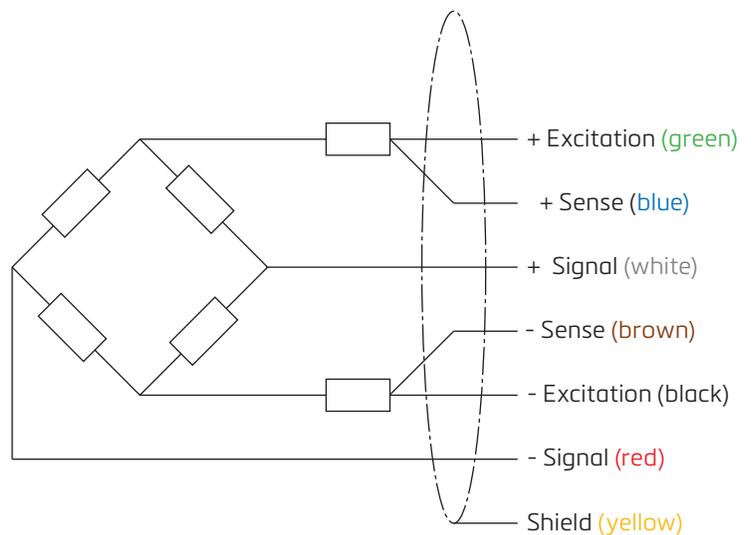
The load cell is provided with a shielded, 6 conductor cable (AWG 26).

Cable jacket: polyurethane

Cable length: 5 m

Cable diameter: 5.8 mm

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



Specifications and dimensions are subject to change without notice.