



Product Description

The type PC3H is a robust stainless steel high capacity single point load cell with a high performance potting for superior environmental protection. The PC3H offers a superior weighing performance and is designed to overcome shock loading associated with the operation of Front End Lifting Systems.

Packed Weight

- Approx. 13.5 kg

Available Accessories

- Compatible range of electronics

Application

- On Board vehicle weighing – The PC3H is designed to be installed in the front lifting forks of refuse vehicles

Key Features

- Capacity of 5 000 kg
- Stainless steel construction
- Environmental Protection IP67
- End mount, rugged design with low sensitivity to moment
- High input resistance

Specifications

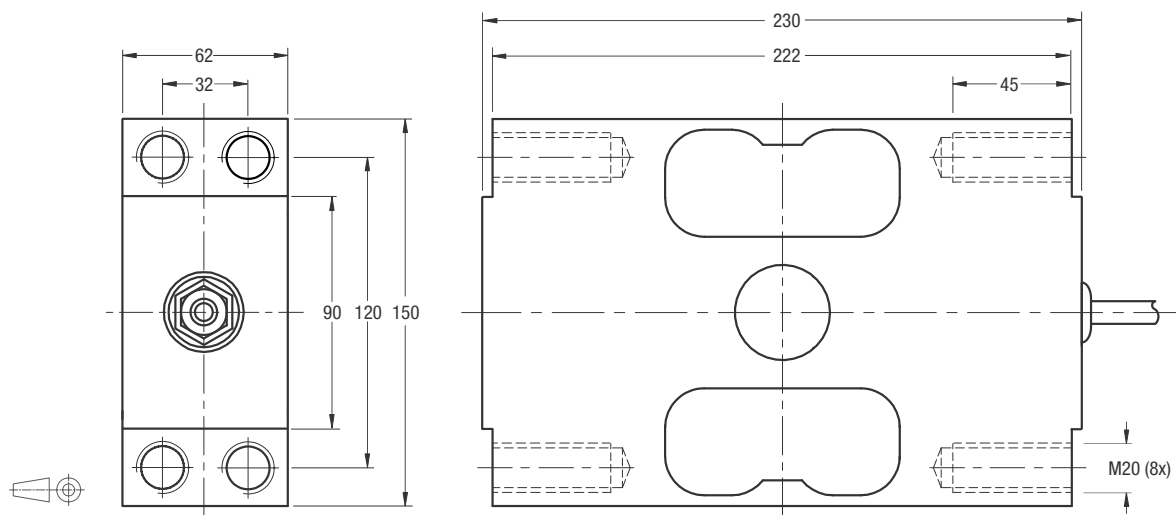
Maximum capacity	(E_{max})	kg	5 000
Accuracy class according to OIML R60			G1*
Maximum number of verification intervals	(n_{LC})		1 000
Minimum load cell verification interval	(V_{min})		n.a.
Temperature effect on minimum dead load output	(TC_0)	$\% \cdot RO / 10^\circ C$	± 0.0200
Temperature effect on sensitivity	(TC_{RO})	$\% \cdot RO / 10^\circ C$	± 0.0500
Combined error		$\% \cdot RO$	± 0.0500
Non-linearity		$\% \cdot RO$	± 0.0500
Hysteresis		$\% \cdot RO$	± 0.0500
Creep error (30 minutes) / DR		$\% \cdot RO$	± 0.0500
Rated Output	(RO)	mV/V	$0.93 \pm 5\%$
Zero balance		$\% \cdot RO$	± 5
Excitation voltage		V	5...15
Input resistance	(R_{LC})	Ω	$1\,100 \pm 50$
Output resistance	(R_{out})	Ω	$1\,000 \pm 50$
Insulation resistance (100 V DC)		M Ω	$\geq 5\,000$
Safe load limit	(E_{lim})	$\% \cdot E_{max}$	200
Ultimate load		$\% \cdot E_{max}$	400
Safe side load		$\% \cdot E_{max}$	100
Maximum off centre loading effect		$\% \cdot RO / mm$	± 0.005 (typically)
Maximum off centre distance at maximum capacity		mm	500
Compensated temperature range		$^\circ C$	-10...+40
Operating temperature range		$^\circ C$	-20...+65
Load cell material			stainless steel 17-4 PH (1.4548)
Sealing			potted
Protection according EN 60 529			IP67

* corresponds to C1 quality, test certificate not available

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 $p_{LC}=0.7$.

Dimensions (in mm)



Mounting bolts M20 8.8; torque 400 Nm. Torque value assumes oiled threads.

Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 20)
Cable jacket thermoplastic rubber.
- Cable length: 5 m
- Cable diameter: 7.6 mm
- The shield is floating

