



# PENKO Engineering BV

The Leading Experts In Weighing & Dosing

7kg-100kg **PC30**



## Product Description

The type PC30 is a stainless steel single point load cell with a high performance potting for superior environmental protection.

## Application

- Retail scales and bench scales

## Key Features

- Capacities from 7 kg to 100 kg
- Stainless steel construction
- Environmental Protection IP67
- Low profile design
- Maximum platform size up to 400 x 400 mm

## Approvals

- OIML approval to C3 (Y = 10 000)
- ATEX and FM hazardous area approval in preparation

## Option

- Y = 15 000 for C3

## Packed Weight

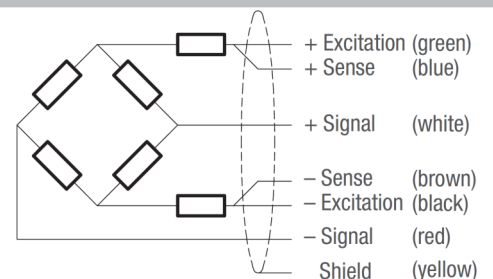
- 1.0 kg

## Available Accessories

- Compatible range of electronics

## Wiring

- The load cell is provided with a shielded, 6 conductor cable (AWG 26). Cable jacket polyurethane
- Cable length: 1.5 m
- Cable diameter: 5.8 mm
- The shield is floating



# Load cell PC30: 7kg-100kg

# Technical Data

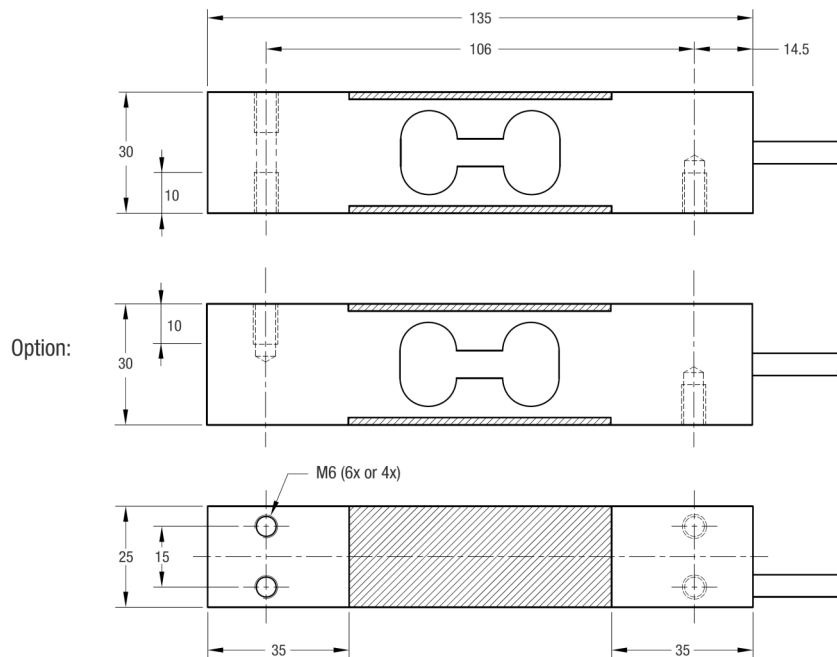
## Specifications

Maximum capacity		(E <sub>max</sub> )	kg	7 / 10 / 15 / 20 / 30 / 50 / 100	10 / 15 / 20 / 30 / 50 / 100
Accuracy class according to OIML R60				(GP)	C3
Maximum number of verification intervals		(n <sub>LC</sub> )		n.a.	3 000
Minimum load cell verification interval		(v <sub>min</sub> )		n.a.	E <sub>max</sub> / 10 000
Temperature effect on minimum dead load output		(TC <sub>0</sub> )	%*RO/10°C	± 0.0400	± 0.0140
Temperature effect on sensitivity		(TC <sub>RO</sub> )	%*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
Option	Min. load cell verification interval	(v <sub>min opt</sub> )		n.a.	E <sub>max</sub> / 15 000
	Temp. effect on min. dead load output	(TC <sub>0 opt</sub> )	%*RO/10°C	n.a.	± 0.0093
Rated Output		(RO)	mV/V		2 ± 10%
Zero balance			%*RO		± 5
Excitation voltage			V		5...15
Input resistance		(R <sub>LC</sub> )	Ω		385 ± 10
Output resistance		(R <sub>out</sub> )	Ω		350 ± 10
Insulation resistance (100 V DC)			MΩ		≥ 5 000
Safe load limit		(E <sub>lim</sub> )	%*E <sub>max</sub>		150
Ultimate load			%*E <sub>max</sub>		300
Safe side load			%*E <sub>max</sub>		100
Maximum platform size; loading acc. to OIML R76			mm		400 x 400
Maximum off centre distance at maximum capacity			mm		135
Compensated temperature range			°C		-10...+40
Operating temperature range			°C		-20...+65 (ATEX -20...+60)
Load cell material					stainless steel 17-4 PH (1.4548)
Sealing					potted
Protection according EN 60 529					IP67

The limits for Non-Linearity, Hysteresis, and TC<sub>RO</sub> are typical values.

The sum of Non-Linearity, Hysteresis and TC<sub>RO</sub> meets the requirements according to OIML R60 with p<sub>LC</sub>=0.7.

## Abmessungen (in mm)



Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads

