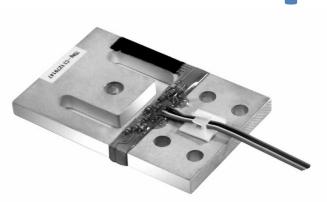


# **PENKO Engineering BV**

The Leading Experts In Weighing & Dosing

3.75Kg-375Kg





#### **Product Description**

The type PB is a very low profile planar beam load cell. Its unique Flintec design allows for an extremely low scale construction.

Using 3 or 4 type PB load cells is an alternative to a single point load cell configuration with the additional benefit of a practical unlimited platform size.

#### **Application**

Compact scales, bench and floor scales, retail and counting scales, special applications in medical and other areas

#### **Key Features**

- Capacities from 3.75 kg to 375 kg
- Scale capacities from 6 kg to 600 kg
- Aluminium construction
- Environmental Protection IP65
- Very low profile design
- High input resistance
- Calibration in mV/V/Ω for accuracy class C3

#### Wiring

- The load cell is provided with a 4 conductor ribbon cable and with AMP #103957-4 connector
- Cable length: 1.0 m for 3.75/7.5/15 kg 1.5 m for 37.5/75/150/375 kg

A special Junction Box, type KPB-4 is available

#### **Approvals**

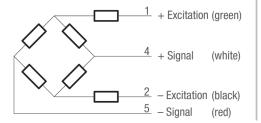
OIML approval to C3
 (Y = 7 500; Y = 6 500 for 375 kg capacity)

#### Weight

Capacity	(kg)	3.75	7.5	15	37.5
Weight	(g)	23	26	36	52
<ul> <li>Capacity</li></ul>	(kg)	75	150	375	
Weight	(g)	85	157	281	

#### **Available Accessories**

- Load mounts
- Compatible range of electronics

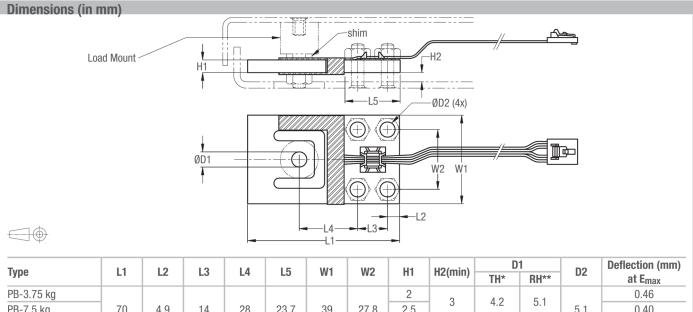


## Load cell PB: 3.75kg-375kg

### **Technical Data**

Maximum capacity	kg	3.75 / 7.5 / 15 / 37.5 / 75 / 150 / 375	3.75 / 7.5 / 15 / 37.5 / 75 / 150	375				
Accuracy class according to OIML R60		(GP)	C	}				
Maximum number of verification intervals		n.a.	3 00	00				
Minimum load cell verification interval	(V <sub>min</sub> )		n.a.	E <sub>max</sub> /7 500	E <sub>max</sub> /6 500			
Temperature effect on minimum dead load output	(TC <sub>0</sub> )	%*R0/10°C	± 0.0400	± 0.0	187			
Temperature effect on sensitivity	(TC <sub>R0</sub> )	%*R0/10°C	± 0.0200	± 0.0100				
Combined error		%*R0	$\pm 0.0500$	± 0.0	200			
Non-linearity		%*R0	± 0.0400	± 0.0	166			
Hysteresis		%*R0	± 0.0400	± 0.0	166			
Creep error (30 minutes) / DR		%*R0	$\pm 0.0600$	± 0.0	166			
Rated Output	(R0)	mV/V	1 ± 10%	0.9 ±	0.1%			
Calibration in mV/V/Ω		%	n.a.	± 0.	05			
Zero balance		%*R0		± 5				
Excitation voltage		V		515				
Input resistance	Ω	1 180 ± 50						
Output resistance	(Rout)	Ω		1000 ± 10				
Insulation resistance (100 V DC)	MΩ	≥ 5 000						
Safe load limit	%*E <sub>max</sub>	300						
Ultimate load		%*E <sub>max</sub>		400				
Safe side load		%*E <sub>max</sub>		200				
Compensated temperature range		°C		-10+40				
Operating temperature range		°C		-10+65				
Load cell material				aluminium				
Sealing				environmentally sealed				
Protection according EN 60 529				IP65				

The limits for Non-Linearity, Hysteresis, and TC<sub>R0</sub> are typical values. The sum of Non-linearity, Hysteresis and TC<sub>R0</sub> meets the requirements according to OIML R60 with  $p_{LC}$ =0.7.



1 D 0.70 Kg					23.7	39	27.8	-	3	4.2	5.1	5.1	0.40
PB-7.5 kg	70	4.9	14	28				2.5					0.40
PB-15 kg								4.1	4.5	6.2			0.27
PB-37.5 kg	76.2	6	15	29.3	27	44.5	30	4.8	5	0.2	7.6	6.6	0.36
PB-75 kg	84.4	6.4		34	27.7	54.8		6.4					0.35
PB-150 kg	107.3	7.8	22.9	45.9	38.4	69.9	44.5	7.9	6	8.2	9.1	8.1	0.56
PB-375 kg	119.4	9.1	25.4	52.6	43.7	76.1	50.8	12.7	0		9.I	9.8	0.68

\*Loading hole diameters with fit to metric load mounts.

\*\*Loading hole diameters with fit to unified load mounts.



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