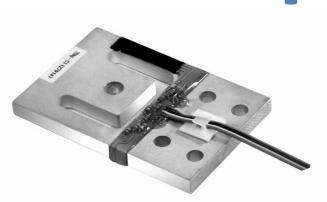


PENKO Engineering BV

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

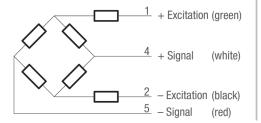
OIML approval to C3
 (Y = 7 500; Y = 6 500 for 375 kg capacity)

Weight

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

Available Accessories

- Load mounts
- Compatible range of electronics

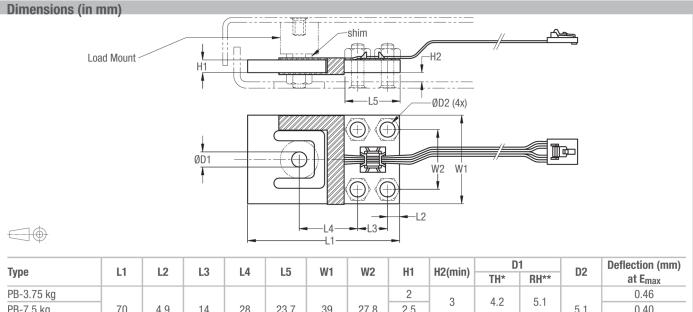


Load cell PB: 3.75kg-375kg

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 _{min})		n.a.	E _{max} /7 500	E _{max} /6 500			
Temperature effect on minimum dead load output	(TC ₀)	%*R0/10°C	± 0.0400	± 0.0	187			
Temperature effect on sensitivity	(TC _{R0})	%*R0/10°C	± 0.0200	± 0.0100				
Combined error		%*R0	± 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	± 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 _{max}	300						
Ultimate load		%*E _{max}		400				
Safe side load		%*E _{max}		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_{R0} are typical values. The sum of Non-linearity, Hysteresis and TC_{R0} 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.



PENKO Engineering B.V. | Schutterweg 35, 6718 XC Ede | The Netherlands | Tel 0031 (0)318 525630 | Fax 0031 (0)318 529715 info@penko.com | www.penko.com

All product information and specifications are subject to change without prior notice. Copyright © 2011 PENKO. All Rights Reserved. Updated 08/13