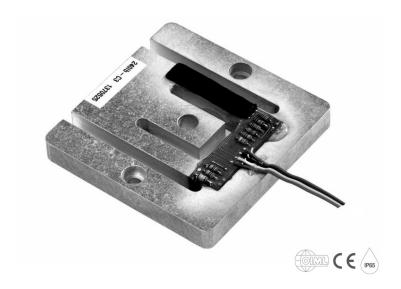


PENKO Engineering BV

The Leading Experts In Weighing & Dosing

12.5lb-240lb





Product Description

The type PBW is a very low profile planar beam load cell. Load cell installation is simplified by the winged mounting arms providing optimum load cell performance in all types of scale structures.

Application

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

Key Features

- Capacities from 12.5 lb to 240 lb
- Aluminium construction
- Environmental Protection IP65
- Very low profile design
- High input resistance
- Calibration in mV/V/ Ω for accuracy class C3

Approvals

 \blacksquare OIML approval to C3 (Y = 7500)

Weight

- Capacity (lb) 12.5 18.75 25 37.5 Weight (g) 35 45 41 50
- Capacity (lb) 50 100 240Weight (g) 50 70 88

Available Accessories

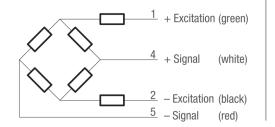
- Load mounts
- Compatible range of electronics

Wiring

- The load cell is provided with a 4 conductor ribbon cable and with AMP #103957-4 connector
- Cable length: 1.0 m for 12.5...50 lb

1.5 m for 100...240 lb

A special Junction Box type KPB-4 is available



Load cell PBW: 12.5lb-240lb

Technical Data

Specifications							
Maximum capacity	(Emax)	lb	12.5 / 18,75 / 25 / 37.5 / 50 / 100 / 240*				
Metric equivalent (1 lb=0.45359 kg)		kg	5.7 / 8.5 / 11.3 / 17 / 22.7 / 45.4 / 109*				
Accuracy class according to OIML R60			(GP) C3				
Maximum number of verification intervals	(n _{max})		n.a.	3 000			
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} /7 500			
Temperature effect on minimum dead load output	(TC ₀)	%*R0/10°C	± 0.0400	± 0.0187			
Temperature effect on sensitivity	(TC _{RO})	%*R0/10°C	± 0.0200	± 0.0100			
Combined error		%*R0	± 0.0500	± 0.0200			
Non-linearity		%*R0	± 0.0400	± 0.0166			
Hysteresis		%*R0	± 0.0400	± 0.0166			
Creep error (30 minutes) / DR		%*R0	± 0.0600	± 0.0166			
Rated Output	(RO)	mV/V	1 ± 10% / 1.2* ± 10%	$0.9 \pm 0.1\% / 1.09^* \pm 0.1\%$			
Calibration in mV/V/Ω		%	n.a.	± 0.05			
Zero balance		%*R0	± 5				
Excitation voltage		V	515				
Input resistance	(R _{LC})	Ω	1180 ± 50				
Output resistance	(Rout)	Ω	1 000 ± 10				
Insulation resistance (100 V DC)		MΩ	≥ 5 000				
Safe load limit	(E _{lim})	%*E _{max}	300 / 250*				
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.

Dimensions (in mm)

Туре	H1	H2	ØD1	ØD2*	Deflection (mm) at Emax
PBW-12.5 lb	2.5			4.2	0.42
PBW-18.75 lb	4			4.2	
PBW-25 lb	3.2			4.2	0.49
PBW-37.5 lb	4			6.2	0.38
PBW-50 lb	4			6.2	0.48
PBW-100 lb	6.4			6.2	
PBW-240 lb	8	3.2	7.4	8.2	0.46

^{*}Attention: Other loading holes on request

