

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

• 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	240		
Weight	(g)	50	70	88		

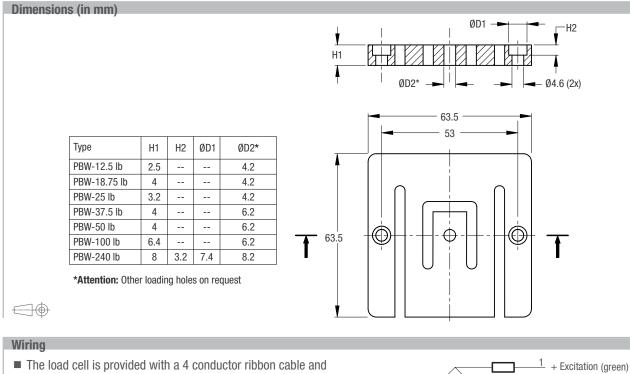
Available Accessories

- Load mounts
- Compatible range of electronics

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Specifications					
Maximum capacity (E _{max})		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	(Vmin)		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 _{R0})	%*R0/10°C	≤ ± 0.0200	≤ ± 0.0100	
Combined error		%*R0	$\leq \pm 0.0500$	$\leq \pm 0.0200$	
Non-linearity		%*R0	≤ ± 0.0400	≤ ± 0.0166	
Hysteresis		%*R0	≤ ± 0.0400	≤ ± 0.0166	
Creep error (30 minutes) / DR		%*R0	$\leq \pm 0.0600$	≤ ± 0.0166	
Rated Output	(R0)	mV/V	$1 \pm 10\% / 1.2^* \pm 10\%$	$0.9\pm0.1\%/1.09^{*}\pm0.1\%$	
Calibration in mV/V/ Ω		%	n.a.	$\leq \pm 0.05$	
Zero balance		%*R0	$\leq \pm$	± 5	
Excitation voltage		V	5	15	
Input resistance (RLC)		Ω	1 180 ± 50		
Output resistance (Rout)		Ω	1000 ± 10		
Insulation resistance (100 V DC)		MΩ	≥ 5	000	
Safe load limit	(Elim)	%*E _{max}	300 /	250*	
Ultimate load		%*E _{max}	40	00	
Safe side load		%*E _{max}	20	00	
Compensated temperature range		°C	-10	.+40	
Operating temperature range		°C	-10	.+65	
Load cell material			alumi	nium	
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 pLc=0.7.



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

