



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

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

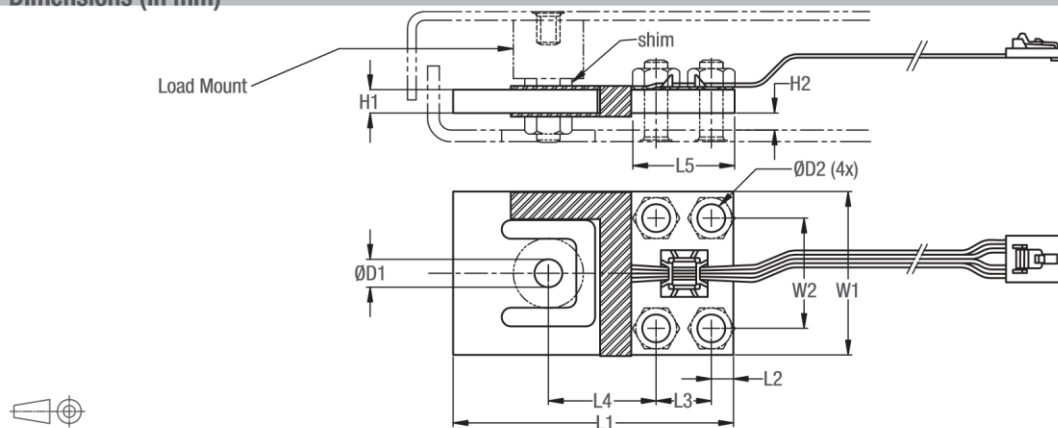
Specifications

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)	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	E _{max} / 6 500
Temperature effect on minimum dead load output (TC ₀)	%•RO/10°C	± 0.0400	± 0.0187	
Temperature effect on sensitivity (TC _{RO})	%•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	
Rated Output (RO)	mV/V	1 ± 10%	0.9 ± 0.1%	
Calibration in mV/V/Ω	%	n.a.	± 0.05	
Zero balance	%•RO	± 5		
Excitation voltage	V	5...15		
Input resistance (R _{LC})	Ω	1 180 ± 50		
Output resistance (R _{out})	Ω	1 000 ± 10		
Insulation resistance (100 V DC)	MΩ	≥ 5 000		
Safe load limit (E _{lim})	%•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_{RO} are typical values.

The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with p_{LC}=0.7.

Dimensions (in mm)



Type	L1	L2	L3	L4	L5	W1	W2	H1	H2(min)	D1		D2	Deflection (mm) at E _{max}
										TH*	RH**		
PB-3.75 kg	70	4.9	14	28	23.7	39	27.8	2	3	4.2	5.1	5.1	0.46
PB-7.5 kg								2.5					0.40
PB-15 kg								4.1					0.27
PB-37.5 kg	76.2	6	15	29.3	27	44.5	30	4.8	5	6.2	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		45.9	38.4	69.9		7.9					0.56
PB-375 kg	119.4	9.1	25.4	52.6	43.7	76.1	50.8	12.7	6	8.2	9.1	9.8	0.68

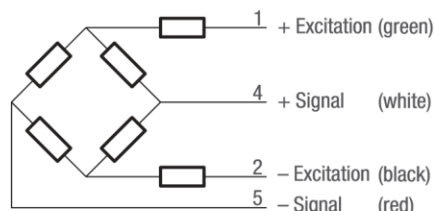
*Loading hole diameters with fit to metric load mounts.

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

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



C A M B R I D G E

FLINTEC **LOAD CELLS**

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>CAPACITY</u>	<u>LIST</u>
PB	PLANAR BEAM LOAD CELL	3.75 KG.	\$ 100.
		7.50 KG.	\$ 100.
		15 KG.	\$ 100.
		37.5 KG.	\$ 110.
		75 KG.	\$ 130.
		150 KG.	\$ 150.

F.O.B.: HONEY BROOK, PA

PRICES EFFECTIVE: 01/01/18

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