

PW22...

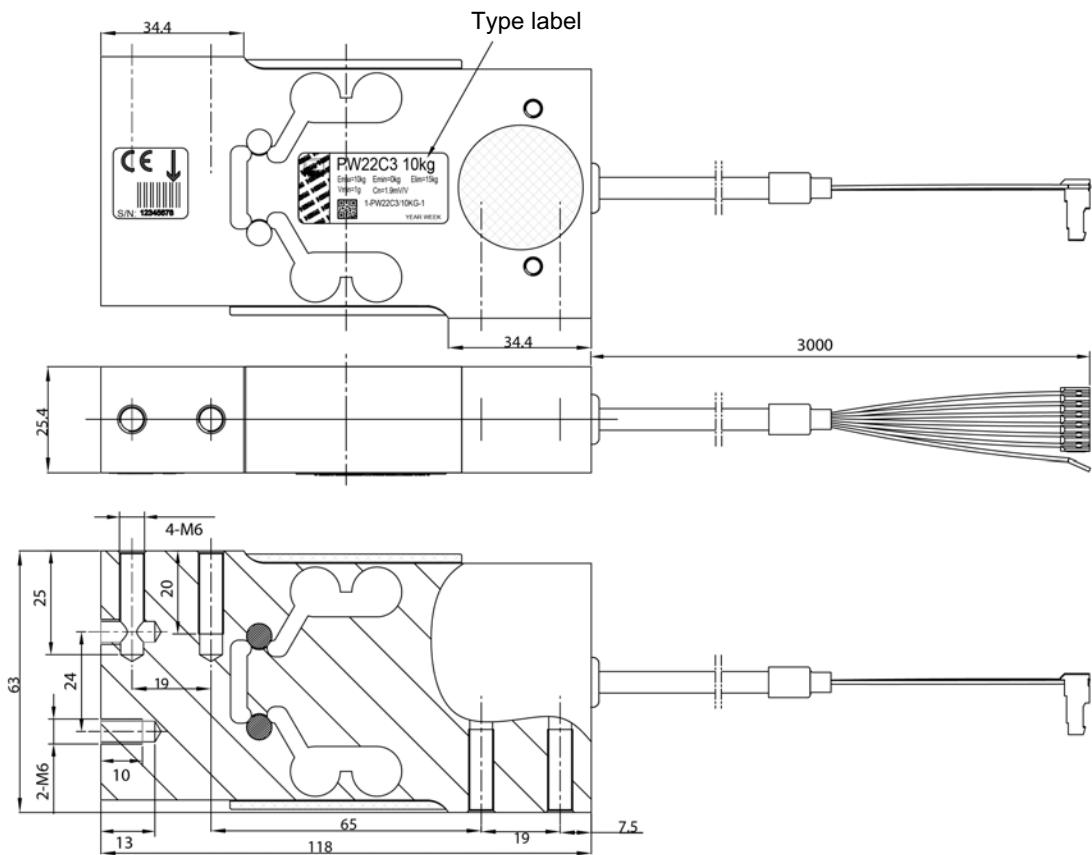
Single point load cells

Special features

- Maximum capacities: 6 kg ... 90 kg
- Aluminum
- High ratio of minimum verification interval Y
- Integrated overload protection (Patent pending)
- Optimized for dynamic weighing applications
- Explosion protection, protection housing and other options deliverable



Dimensions (in mm; 1 mm = 0.03937 inches)



Specifications

Type	PW22...								
Accuracy class ¹⁾	C3 Multi Range (MR)								
Maximum number of load cell intervals	n_{LC}	3000							
Maximum capacity	E_{max}	kg	6	10	20	30	50	90	
Minimum LC verification interval	v_{min}	g	0.5	1	2	2	5	10	
Max. platform size		mm	400 x 400						
Sensitivity	C_n	mV/V	1.9 ± 0.1						
Zero signal (without pre load)			0 ± 0.1						
Temperature effect on zero balance	TK_0	% of C_n / 10 K	±0.0117	±0.0140	±0.0140	±0.0093	±0.0140	±0.0155	
Ratio of minimum verification interval	Y		12,000	10,000	10,000	15,000	10,000	9,000	
Temperature effect on sensitivity ²⁾ in the temperature range +20 ... +40 °C -10 ... +20 °C	TK_c	% of C_n / 10 K	±0.0175 ±0.0117						
Relative reversibility error ²⁾	d_{hy}	% of C_n	±0.0166						
Linearity deviation ²⁾	d_{lin}		±0.0166						
Ratio of minimum dead load output return	DR		±0.0166						
Off-center load error ³⁾			±0.0233						
Input resistance	R_{LC}	Ω	300...500						
Output resistance	R_0		300...500						
Reference excitation voltage	U_{ref}	V	5						
Nominal range of excitation voltage	B_U	V	1...12						
Max. excitation voltage		V	15						
Isolation resistance at 100 V _{DC}	R_{is}	GΩ	> 2						
Nominal (rated) range of ambient temperature	B_T	°C [°F]	-10 ... +40 [14 ... 104]						
Operating temperature range	B_{tu}		-10 ... +50 [14 ... 122]						
Storage temperature range	B_{tl}		-25 ... +70 [-13 ... 158]						
Limit load at 120 mm eccentricity	E_L	% of E_{max}	150						
Lateral load limit, static	E_{lq}		> 300						
Permissible dyn. load; with max. 50 mm eccentricity	F_{srel}		70						
Breaking load at 20 mm eccentricity	E_d		500						
Nominal (rated) displacement at E_{max} , approx.	s_{nom}	mm	< 0.2						
Resonance frequency, without load, approx.		Hz	280	380	540	660	866	1015	
Weight, approx.	G	kg	0.5						
Degree of protection ⁴⁾			IP67						
Material			Aluminum Silicone rubber PVC						
Measuring body			Aluminum						
Application protection			Silicone rubber						
Cable sheath			PVC						

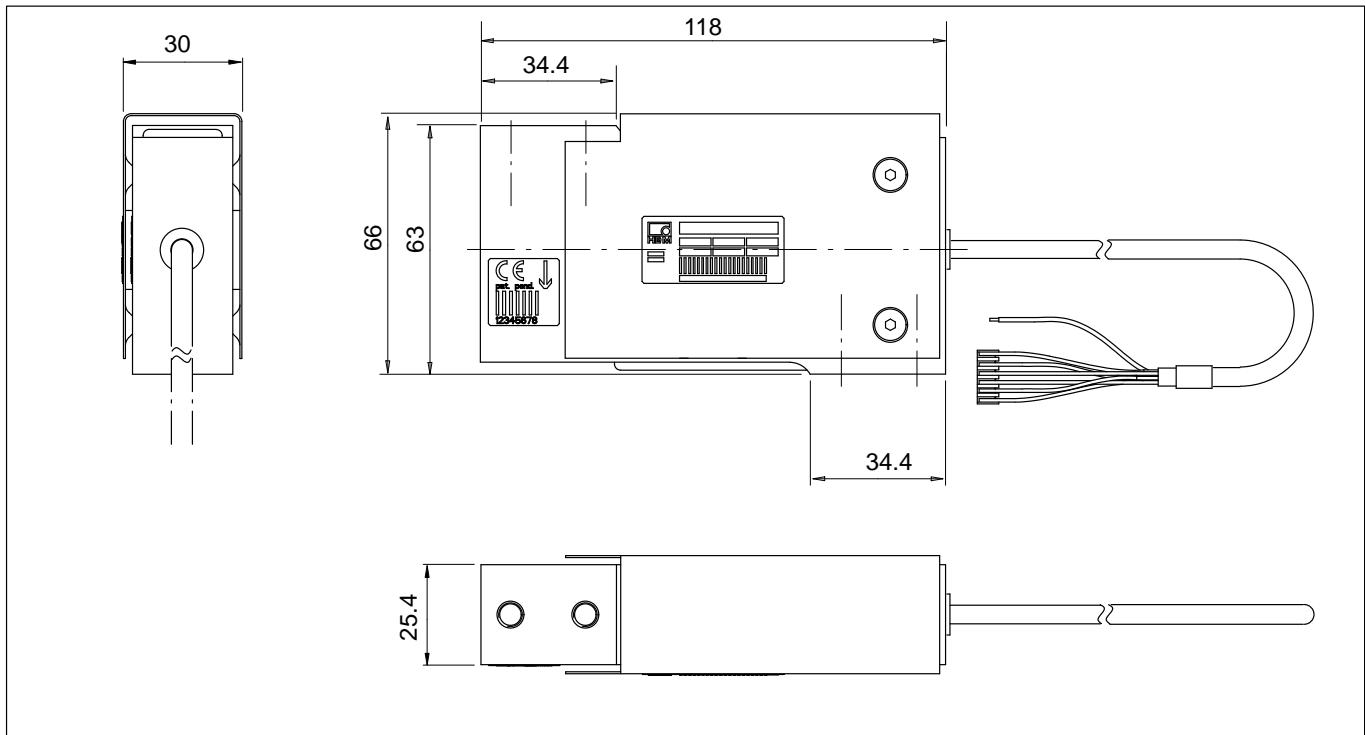
1) According to OIMLR60 with $P_{LC} = 0.7$

2) The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_c) are recommended values.
The sum of these values remain within the cumulated error limit acc. to OIML R60

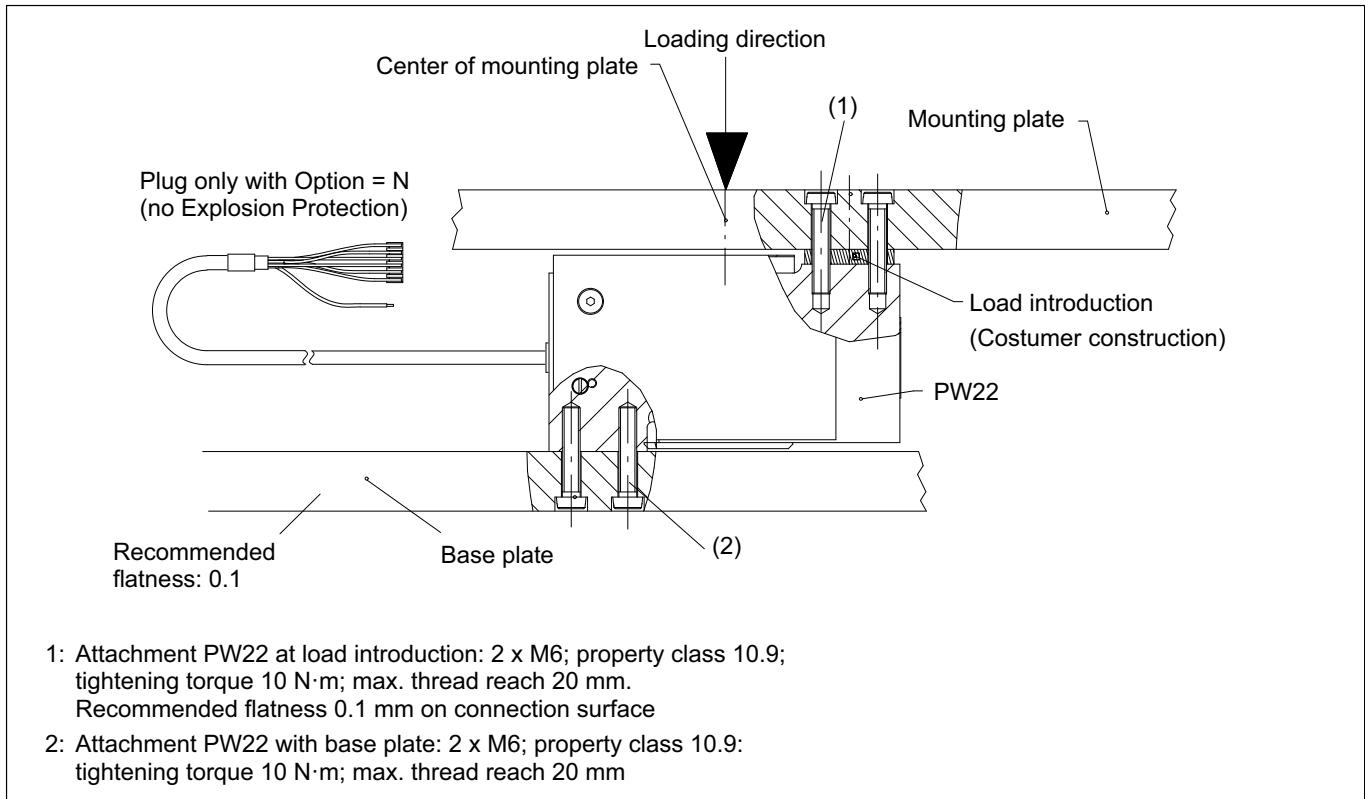
3) Loaded with 30 % of the max. capacity at 142 mm eccentricity (acc. to OIML R76)

4) According to EN 60 529 (IEC 529)

Dimensions for version with protection housing

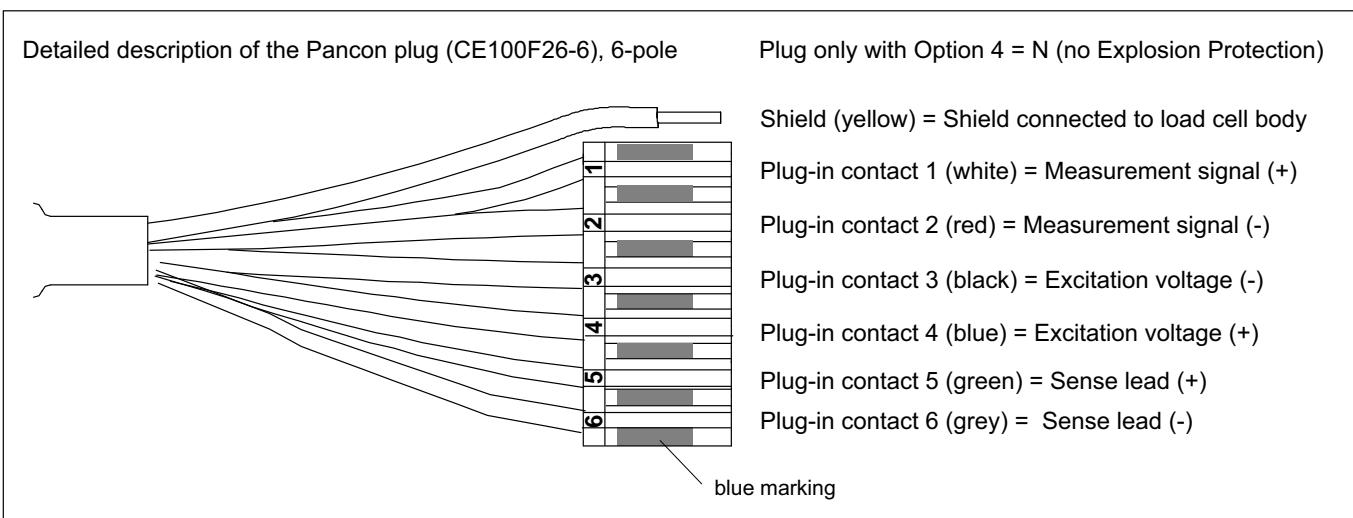


Mounting hints



Wiring code

Connection with 6 wire cable (selectable cable length: 1.5 m; 3 m; 6 m)



Ordering codes

PW22C... (aluminum)

Type	PW12C
Accuracy class	C3-MR (OIML) (Multi Range)
Comments	Cable length 3 m (6-wire)

Maximum capacity [kg]	Ordering number
6	1-PW22C3/6KG-1
10	1-PW22C3/10KG-1
20	1-PW22C3/20KG-1
30	1-PW22C3/30KG-1
50	1-PW22C3/50KG-1
90	1-PW22C3/90KG-1

K-PW22... (aluminum), optional versions

Ordering number														
K-PW22														
Code	Option 1: Mechanical version													
0	Without protection housing													
1	With protection housing													
Code	Option 2: Accuracy class													
MR	C3-MR (OIML) (Multi Range)													
Code	Option 3: Nominal (rated) load													
6	6 kg													
10	10 kg													
20	20 kg													
30	30 kg													
Code	Option 4: Explosion protection													
N	No explosion protection													
AI1/21	IECEx+ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIIC T125°C Db*													
AI2/22	IECEx+ATEX Zone 2/22 not intrinsically safe II 3G Ex ec IIC T6/T4 Gc, II 3D Ex tc IIIC T125°C Dc*													
Code	Option 5: Cable length													
1.5	1.5 m													
3	3 m (standard)													
6	6 m													
12	12 m													
Code	Option 6: Other													
N	Without													
K-PW22	-	-	M	R	-	-	-	-	-	-	-	-	-	N

* Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEx BVS 13.0109 X

Subject to modifications.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45 · 64293 Darmstadt · Germany
Tel. +49 6151 803-0 · Fax +49 6151 803-9100
Email: info@hbm.com · www.hbm.com

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