## **PW6D...**

# Single point load cells

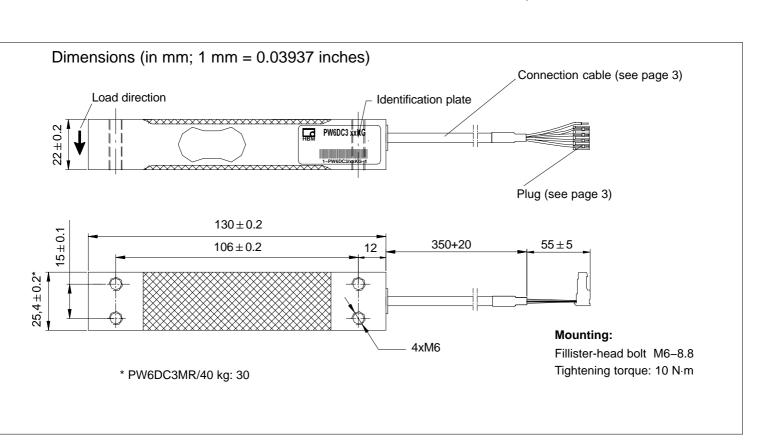


#### **Special features**

- Accuracy class C3 with OIML-R60 test report
- Max. capacities: 3 kg ... 40 kg
- Off center load compensated (OIML R 76)
- Degree of protection IP67 (according to EN 60 529)
- Shielded connection cable
- Optimized for dynamic weighing applications



- Connection cable in six wire circuit
- Different cable lengths
- Aligned output, suitable for connection in parallel





## **Specifications**

Туре	PW6D									
Accuracy class 1)					C3, C3MR					
Maximum number of load cell intervals (n <sub>LC</sub>		3000								
Maximum capacity (E <sub>max</sub> )	kg	3	5	10	15	20	30	40		
Minimum LC verification interval (v <sub>min</sub> ), (Accuracy class C3)	g	0.5	1	2	2	5	5	10		
Temperature effect on zero balance (TK <sub>0</sub> ), (Accuracy class C3)	% of C <sub>n</sub> / 10 K	± 0.0233	± 0.0280	± 0.0280	± 0.0186	± 0.0350	± 0.0233	± 0.0350		
Minimum LC verification interval (v <sub>min</sub> ), (Accuracy class C3MR)	g	0.2	0.5	1	1	2	2	5		
Temperature effect on zero balance (TK <sub>0</sub> ), (Accuracy class C3MR)	% of C <sub>n</sub> / 10 K	± 0.0093	±0.0140	±0.0140	± 0.0093	± 0.0140	± 0.0093	±0.0175		
Max. platform size	mm		•		300 x 300					
Sensitivity (C <sub>n</sub> )					2.0 ± 0.2					
Zero signal	mV/V	0 ±0.1								
Temperature effect on sensitivity (TK <sub>C</sub> ) <sup>2)</sup> in the temperature range +20 +40 °C [+68 +104 °F] -10 +20 °C [+14 +68 °F]	% of C <sub>n</sub> / 10 K	±0.0175 ±0.0117								
Relative reversibility error (d <sub>hy</sub> ) <sup>2)</sup>		±0.0166								
Non-linearity (d <sub>lin</sub> ) <sup>2)</sup>		± 0.0166								
Ratio of minimum dead load output return (DR)	% of C <sub>n</sub>	±0.0166								
Off-center load error <sup>3)</sup>		±0.0233								
Input resistance (R <sub>LC</sub> )	Ω	380 ±38								
Output resistance (R <sub>0</sub> )		380 ±38								
Reference excitation voltage (U <sub>ref</sub> )	V		5							
Nom. range of excitation voltage (B <sub>U</sub> )		1 12								
Isolation resistance (R <sub>is</sub> ) at 100 V <sub>DC</sub>	GΩ	> 2								
Nominal (rated) range of ambient temperature ( $B_T$ )			-10 +40 [+14 +104]							
Operating temperature range (B <sub>tu</sub> )	°C [°F]	-10 +50 [+14 +122]								
Storage temperature range (Bt)		-25 +70 [-13 +158]								
Limit load (E <sub>L</sub> ) *)	% of E <sub>max</sub>	150								
*) at max. eccentricity	mm				100					
Lateral load limit (E <sub>Iq</sub> ), static	%	300								
Breaking load (E <sub>d</sub> )	of E <sub>max</sub>				300					
Nominal (rated) displacement at $E_{max}$ ( $s_{nom}$ ), approx.	mm	< 0.18	< 0.18	< 0.19	< 0.21	< 0.23	< 0.28	< 0.29		
Natural frequency, approx.	Hz	270	390	500	600	675	760	790		
Weight (G), approx.	kg				0.25					
<b>Degree of protection</b> acc. to EN 60 529 (IEC 529)					IP67					
Material: Measuring body Application protection Cable sheath		Aluminum Silicone caoutchouc PVC								

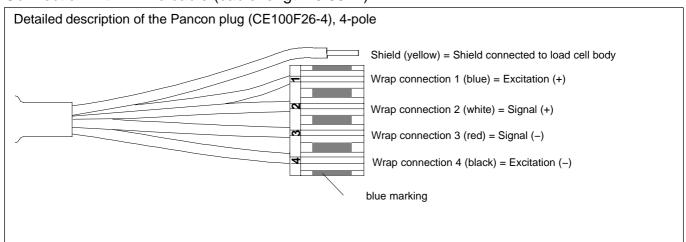
 $<sup>\</sup>overline{}^{1)}$  According to OIMLR60 with  $P_{LC} = 0.7$ 

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

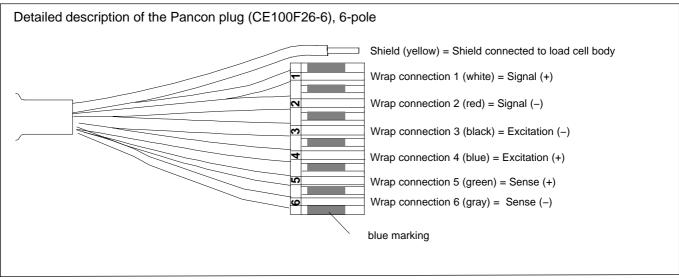
<sup>3)</sup> Nach OIML R76

#### Wiring code

#### Connection with 4 wire cable (cable length: 0.35 m)



### Connection wirh 6 wire cable (cable length, selectable: 0.35 m; 1.5 m; 3 m; 6 m)



### **Ordering designations**

PW6D... (Aluminum)

Туре	PW6D		
Accuracy	C3 (OIML)		
Note	Cable length 0.35m (4 wire)		
Capacity	Order no.		
3kg	1-PW6DC3/3KG-1		
5kg	1-PW6DC3/5KG-1		
10kg	1-PW6DC3/10KG-1		
15kg	1-PW6DC3/15KG-1		
20kg	1-PW6DC3/20KG-1		
30kg	1-PW6DC3/30KG-1		
40kg	1-PW6DC3/40KG-1		

K-PW6E	K-PW6D (Aluminum), optional versions										
Order no.											
K-PW6D											
		Option	1: Mech	anical ve	ersion						
	N	-									
				Option 2: Accuracy							
		C3		C3 (OIML)							
		MR	C3-MR	C3-MR (OIML)							
			Code	Option	3: Capac	ity					
			3	3kg							
			5	5kg							
			10	10kg							
			15	15kg							
			20	20kg							
				30kg							
				40kg							
				9							
				Code	Option 4	: NN					
				N	-						
				-	1						
					Code	Option 5: Cable length					
						0.35m (4 wire)					
						0.35m (6 wire)					
						1.5m (6 wire)					
						3m (6 wire)					
						6m (6 wire)					
						Code Option 6: Miscellaneous					
						N without					
						A 2mV/V ±0.1% / 410 Ohms ±0.3 Ohms					
						(aligned output, suitable for connection in parallel)					
					<u></u>						
K-PW6D	- <b>N</b> -		-	- <b>N</b> -		<b>─</b> - 🗍					
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#### Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45, D-64293 Darmstadt, Germany Tel.: +49 6151 803-0 Fax: +49 6151 803 9100 Email: support@hbm.com Internet: www.hbm.com

