

# PW2D...

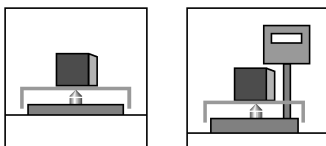
## Single point load cells

### Special features

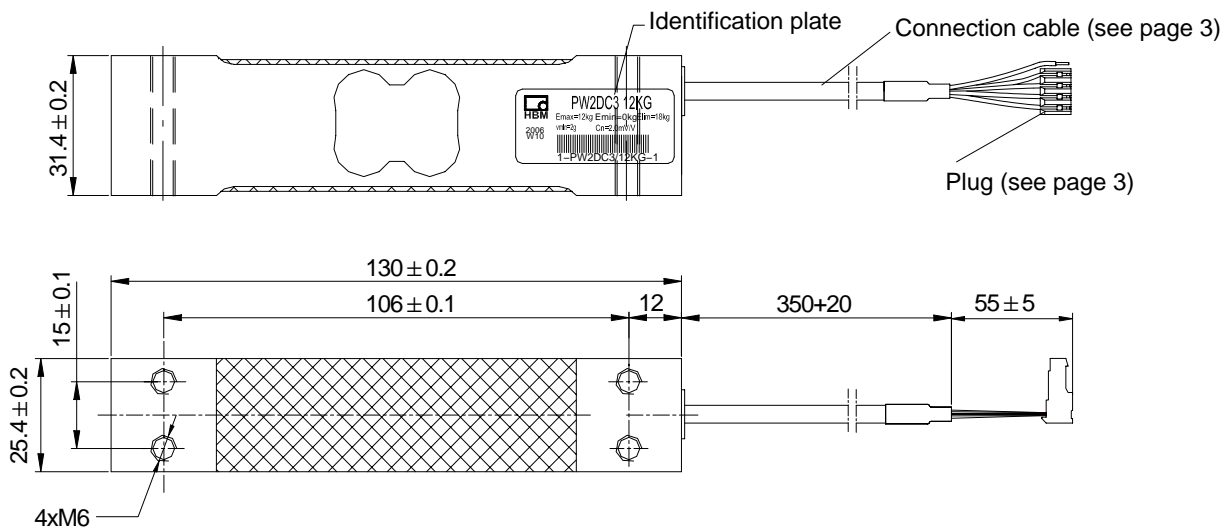
- Accuracy class C3 with OIML-R60 test report
- Max. capacities: 7.2 kg ... 72 kg
- Off center load compensated (OIML R76)
- Degree of protection IP67 (according to EN 60 529)
- Shielded connection cable
- optimized for dynamic weighing applications

### Optional:

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



Dimensions (in mm; 1 mm= 0.03937 inches)



### Mounting:

Max. capacities  $\leq$  36 kg: fillister-head bolt M6-8.8, tightening torque: 6 N·m  
 Max. capacities = 72 kg: fillister-head bolt M6-10.9, tightening torque: 10 N·m

# Specifications

Type	PW2D...					
Accuracy class <sup>1)</sup>	C3, C3MR					
Maximum number of load cell intervals ( $n_{LC}$ )	3000					
Maximum capacity ( $E_{max}$ )	kg	7.2	12	18	36	72
Minimum LC verification interval ( $v_{min}$ ) (Accuracy class C3)	g	1	2	5	10	20
Temperature effect on zero balance ( $TK_0$ ) (Accuracy class C3)	% of $C_n$ / 10 K	$\pm 0.0194$	$\pm 0.0233$	$\pm 0.0389$	$\pm 0.0389$	$\pm 0.0389$
Minimum LC verification interval ( $v_{min}$ ) (Accuracy class C3MR)	g	0.5	1	2	5	10
Temperature effect on zero balance ( $TK_0$ ) (Accuracy class C3MR)	% of $C_n$ / 10 K	$\pm 0.0097$	$\pm 0.0116$	$\pm 0.0155$	$\pm 0.0194$	$\pm 0.0194$
Max. platform size	mm	380 x 380				
Sensitivity ( $C_n$ )	mV/V	$2.0 \pm 0.2$				
Zero signal	mV/V	$0 \pm 0.1$				
Temperature effect on sensitivity ( $TK_C$ ) <sup>2)</sup> in the temperature range +20 ... +40 °C [+68 ... +104 °F] -10 ... +20 °C [+14 ... +68 °F]	% of $C_n$ / 10 K	$\pm 0.0175$ $\pm 0.0117$				
Relative reversibility error ( $d_{hy}$ ) <sup>2)</sup>		$\pm 0.0166$				
Linearity deviation ( $d_{lin}$ ) <sup>2)</sup>		$\pm 0.0166$				
Ratio of minimum dead load output return (DR)	% of $C_n$	$\pm 0.0166$				
Off-center load error <sup>3)</sup>		$\pm 0.0233$				
Input resistance ( $R_{LC}$ )	$\Omega$	300...500				
Output resistance ( $R_0$ )		300...500				
Reference excitation voltage ( $U_{ref}$ )		5				
Nom. range of excitation voltage ( $B_U$ )	V	1 ... 12				
Isolation resistance ( $R_{is}$ ) at 100 V <sub>DC</sub>	G $\Omega$	> 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 ( $B_{st}$ )		-25 ... +70 [-13 ... +158]				
Limit load ( $E_L$ ) <sup>*)</sup>	% of $E_{max}$	150				
<sup>*)</sup> at max. eccentricity	mm	160				
Lateral load limit ( $E_{lq}$ ), static	% of $E_{max}$	300				
Breaking load ( $E_d$ )		300				
Nominal (rated) displacement at $E_{max}$ ( $s_{nom}$ ), approx.	mm	0.15	0.13	0.12	0.12	0.13
Natural frequency, approx.	Hz	340	460	600	840	1140
Weight (G), approx.	kg	0.25				
Degree of protection acc. to EN 60 529 (IEC 529)		IP67				
Material: Measuring body		Aluminum				
Application protection		Silicone caoutchouc				
Cable sheath		PVC				

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

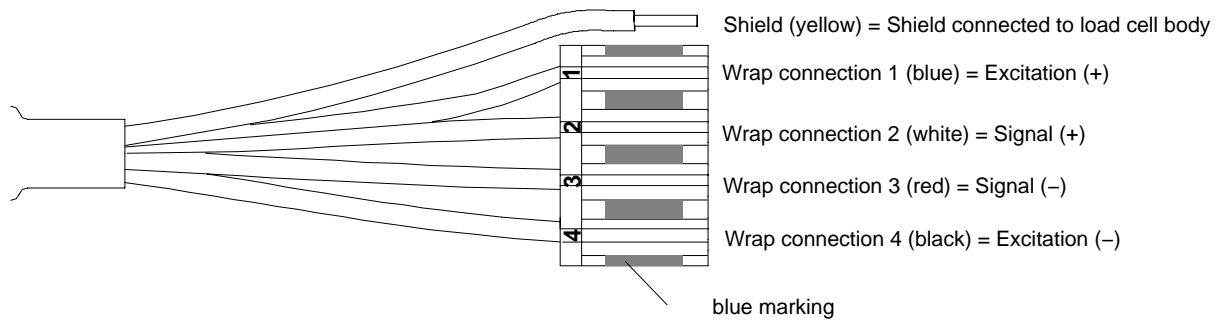
2) The values for linearity deviation ( $d_{lin}$ ), relative reversibility error ( $d_{hy}$ ) and temperature effect on sensitivity ( $TK_C$ ) are recommended values. The sum of these values remain within the cumulated error limit acc. to OIML R60.

3) According to OIML R76.

## Wiring code

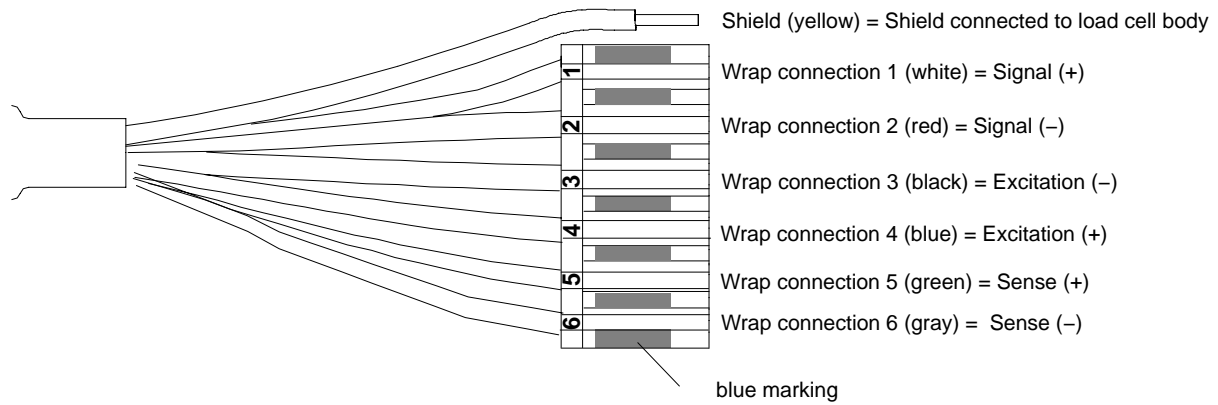
### Connection with 4 wire cable (cable length: 0.35 m)

Detailed description of the Pancon plug (CE100F26-4), 4-pole



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

Detailed description of the Pancon plug (CE100F26-6), 6-pole



## Ordering designations

### PW2D... (Aluminum)

Type	PW2D	
Accuracy	C3 (OIML)	
Note	Cable length 0.35m (4 wire)	
Capacity	Order no.	
7.2kg	1-PW2DC3/7.2KG-1	
12kg	1-PW2DC3/12KG-1	
18kg	1-PW2DC3/18KG-1	
36kg	1-PW2DC3/36KG-1	
72kg	1-PW2DC3/72KG-1	

### K-PW2D... (Aluminum), optional versions

Order no.	
K-PW2D	
Code	Option 1: Mechanical version
N	-
Code	Option 2: Accuracy
C3	C3 (OIML)
MR	C3-MR (OIML)
Code	Option 3: Capacity
7.2	7.2kg
12	12kg
18	18kg
36	36kg
72	72kg
Code	Option 4: NN
N	-
Code	Option 5: Cable length
4_0.35	0.35m (4 wire)
6_0.35	0.35m (6 wire)
6_1.5	1.5m (6 wire)
6_3	3m (6 wire)
6_6	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)
K-PW2D - N - - - - N - - - - -	

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

**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](mailto:support@hbm.com) Internet: [www.hbm.com](http://www.hbm.com)



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