

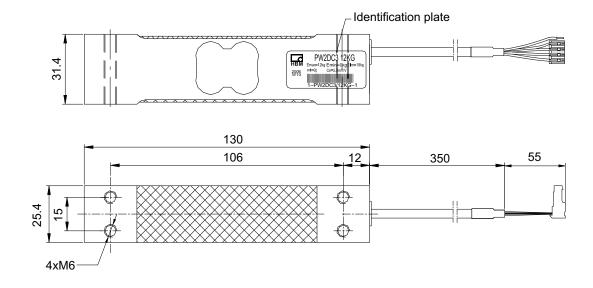
PW2D...

Single point load cells

Special features

- Max. capacities: 7.2 kg ... 72 kg
- Aluminum
- High ratio of minimum verification interval Y
- Optimized for dynamic weighing applications
- Shielded connection cable
- Different cable lengths and other options available

Dimensions (in mm; 1 mm= 0.03937 inches)





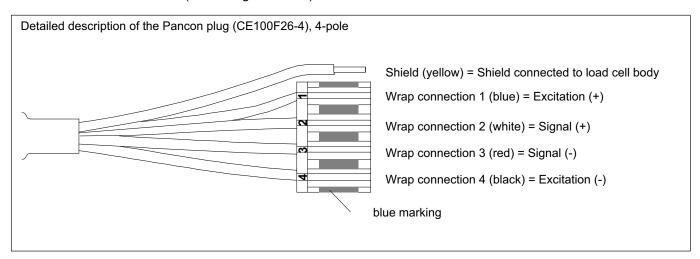
Specifications

Туре					PW2D			
Accuracy class ¹⁾				C3, C3MR				
Maximum number of load cell intervals	n_{LC}		3000					
Maximum capacity		kg	7.2	12	18	36	72	
Minimum LC verification interval (Accuracy class C3MR)	E _{max}	g	0.5	1	2	5	10	
Temperature effect on zero balance (Accuracy class C3MR)	TK ₀	% of C _n / 10 K	±0.0097	±0.0116	±0.0155	±0.0194	±0.0194	
Ratio of minimum verification interval	Υ		14,000 12,000 9,000 7,200				00	
Max. platform size		mm	380 x 380					
Sensitivity	C _n	mV/V	2.	0 ±0.2 (Opt	ion 6: A = 2	2mV/V ±0.1%	%)	
Zero signal		mV/V			0 ±0.1			
Temperature effect on sensitivity ²⁾ in the temperature range +20 +40 °C [+68 +104 °F] -10 +20 °C [+14 +68 °F]		% of C _n / 10 K	±0.0175 ±0.0117					
Relative reversibility error ²⁾	d _{hy}			±0.0166				
Linearity deviation ²⁾		0/ -4.0	±0.0166					
Minimum dead load output return		% of C _n	±0.0166					
Off-center load error ³⁾		-	±0.0233					
Input resistance		_	300500					
Output resistance		Ω	300500 (Option 6: A = 410 Ω ±0.2 Ω)					
Reference excitation voltage			5 1 12					
Nominal range of excitation voltage		V						
Maximum excitation voltage			15					
Isolation resistance at 100 V _{DC}		GΩ	> 2					
Nominal (rated) range of ambient temperature			-10 +40 [+14 +104]					
Operating temperature range		°C [°F]	-10 +50 [+14 +122]					
Storage temperature range			-25 +70 [-13 +158]					
Limit load		% of E _{max}	150					
at max. eccentricity		mm	160					
Lateral load limit, static		0/ 5=	300					
Breaking load		% of E _{max}	300					
Nominal (rated) displacement at E _{max} , approx.	S _{nom}	mm	0.15	0.13	0.12	0.12	0.13	
Natural frequency, approx.		Hz	340	460	600	840	1140	
Weight, approx.	m	kg	0.25					
Degree of protection ⁴⁾			IP67					
Material Measuring body Application protection Cable sheath			Aluminum Silicone caoutchouc PVC					

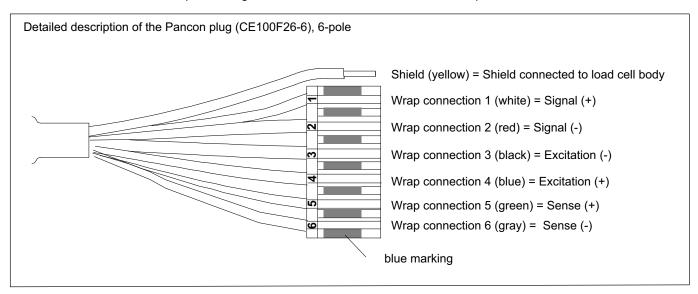
¹⁾ According to OIMLR60 with P_{LC} = 0.7
2) The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values. The sum of these values remain within the cumulated error limit according to OIML R60.
3) According to OIML R76.
4) According to EN 60 529 (IEC 529)

Wiring code

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



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



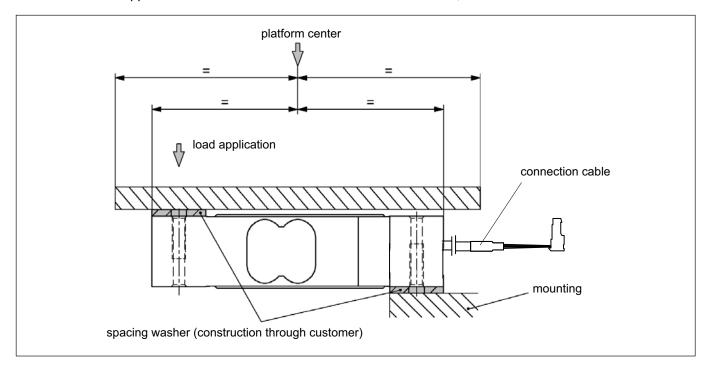
Mounting and load application

The load cells are fixed at the mounting bores. For the recommended screws and tightening torques refer to the table below:

Max. capacity	Thread	Min. property class	Tightening torque ¹⁾
7.236 kg	M6	8.8	6 N·m
72 kg	M6	10.9	10 N⋅m

¹⁾ Recommended value for the stated property class. For screw dimensioning please refer to the appropriate information given by the screw manufacturers.

Load must not be applied to the side where the cable connection is located, as this would cause a force shunt.



Ordering designations

PW2D... / K-PW2D-... Optimized for dynamic applications

PW2D... (Aluminium)

Туре	PW2D
Accuracy	C3-MR (OIML) (Multi Range)
Note	Cable length 0.35 m (4 wire)

Capacity	Order no.
7,2 kg	1-PW2DC3/7.2KG-1
12 kg	1-PW2DC3/12KG-1
18 kg	1-PW2DC3/18KG-1
36 kg	1-PW2DC3/36KG-1
72 kg	1-PW2DC3/72KG-1

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

Code

K-PW2D

N

C3MR

Option 2: Accuracy

Order no).	
K-PW2D)	
	Code	Option 1: Mechanical version
	N	_

₹	C3-MR (C3-MR (OIML) (Multi Range)					
		1					
	Code	Option 3: Capacity					
	7.2	2 7.2 kg					
	12	12 kg					
	18	6 36 kg					
	36						
	72						
			1				
		Code	Option 4: NN				
		N	-				

0	Option 5: Cable length		
5 0.	0.35 m (4 wire) (Standard)		
5 0.3	0.35 m (6 wire)		
.5 1.5 m (6 wire)			
3 :	3 m (6 wire)		
6_6 6		6 m (6 wire)	
Co	ode	Option 6: Miscellaneous	
	N	Without	
	A	2mV/V ±0.1% / 410 Ohms ±0.2 Ohms (aligned output, suitable for connection in parallel)	
	5 0.3 5 1.8 3 1	5 0.35 m (5 0.35 m (6 v 6 m (6 v N)	

Ν