

# PW6D

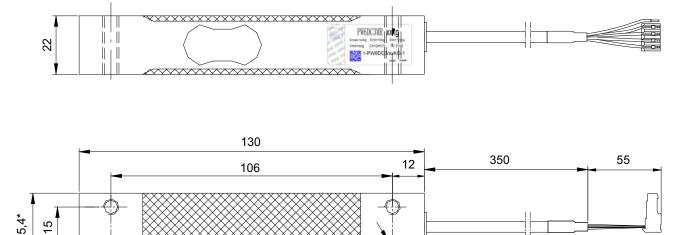
# Single point load cells

### **Special features**

- Max. capacities: 3 kg ... 40 kg
- Aluminum
- High ratio of minimum verification interval Y
- Optimized for dynamic weighing applications
- Different cable length and other options deliverable

4xM6

Dimensions (n mm; 1 mm = 0.03937 inches)



\* PW6DC3MR/40 kg: 30



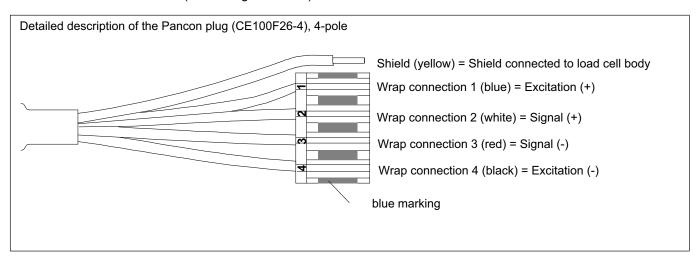
## **Specifications**

Туре	PW6D								
Accuracy class 1)	C3 Multi Range (MR)								
Maximum number of load cell intervals	$n_{LC}$		3000						
Maximum capacity	E <sub>max</sub>	kg	3 5		10	15	20	30	40
Minimum LC verification interval		g	0.2	0.5	1	1	2	2	5
Temperature effect on zero balance	TK <sub>0</sub>	% of C <sub>n</sub> /10 K	±0.0093	±0.0140	±0.0140	±0.0093	±0.0140	±0.0093	±0.0175
Ratio of minimum verification interval	Υ		15.000	10.000	10.000	15.000	10.000	15.000	8.000
Max. platform size		mm				300 x 300	)		
Sensitivity	C <sub>n</sub>	mV/V	2.0 ±0.2						
Zero signal						0 ±0.1			
Temperature effect on sensitivity <sup>2)</sup> in the temperature range +20 +40 °C [+68 +104 °F] -10 +20 °C [+14 +68 °F]	TK <sub>c</sub>	% of C <sub>n</sub> /10 K		± 0.0175 ± 0.0117					
Relative reversibility error <sup>2)</sup>	d <sub>hy</sub>		±0.0166						
Non-linearity <sup>2)</sup> Ratio of minimum dead load output return			±0.0166						
		% of C <sub>n</sub>	±0.0166						
Off-center load error <sup>3)</sup>			±0.0233						
out resistance R <sub>LC</sub>		0	380 ±38						
Output resistance	R <sub>0</sub>	Ω	380 ±38						
Reference excitation voltage			5						
Nominal range of excitation voltage		V	1 12						
Maximum excitation voltage			15						
Isolation resistance at 100 V <sub>DC</sub>	R <sub>is</sub>	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	EL	% of E <sub>max</sub>	150						
at max. eccentricity		mm	100						
Lateral load limit, static		% of E <sub>max</sub>	300						
Breaking load		70 Oi ∟max	300						
Nominal (rated) displacement at E <sub>max</sub> , approx.	S <sub>nom</sub>	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, approx.		kg		0.25					
Degree of protection <sup>4)</sup>				IP67					
Material: Measuring body Application protection Cable sheath			Aluminum Silicone caoutchouc PVC						

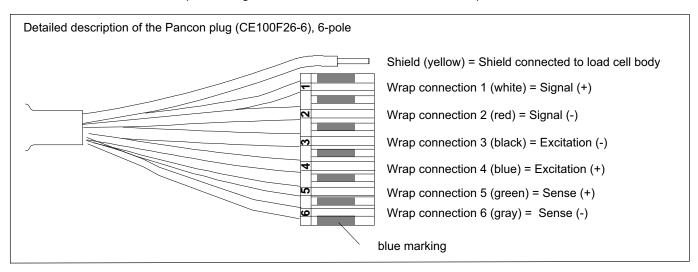
According to OIMLR60 with P<sub>LC</sub> = 0.7
 The values for linearity deviation (d<sub>lin</sub>), relative reversibility error (d<sub>hy</sub>) and temperature effect on sensitivity (TK<sub>C</sub>) are recommended values. The sum of these values remain within the cumulated error limit according to OIML R60.
 According to OIML R76
 According to EN 60 529 (IEC 529)

#### 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)



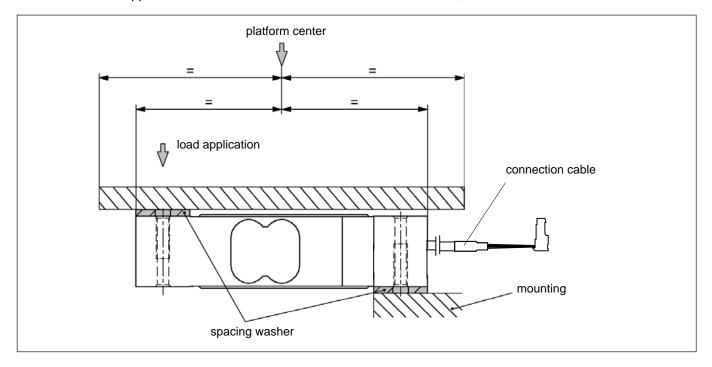
### Mounting and load application

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 <sup>1)</sup>		
340 kg	M6	8.8	10 N⋅m		

<sup>1)</sup> 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 (overview)

#### PW6D... (Aluminium)

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

#### K-PW6D-... (Aluminium), optional versions

10.							
iD .							
Code	Option 1: Mechanical version						
N	-						
	Code	Option 2	Option 2: Accuracy				
	MR	C3-MR	R (OIML) (Multi Range)				
		Code	Option 3	3: Capacity	/		
		3	3 kg				
		5	5 kg				
		10	15				
		15					
		30					
		40					
			Code	Option 4			
			N	-			
				Code	Code Option 5: Cable length		
				4_0.35	_0.35		
				6_0.35			
				6_1.5	6_3 3 m (6 wire) 6_6 6 m (6 wire)		
				6_6			
					Code Option 6: Miscellaneous		
					N A	without 2mV/V ±0,1% / 410 Ω ±0,3 Ω	
					(aligned output, suitable for connection in parallel)		

K-PW6D - N -