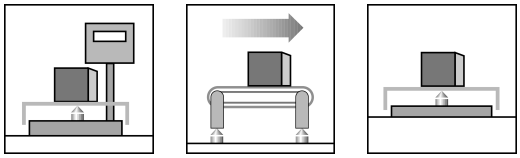
Data Sheet

PW6D...

Single point load cells



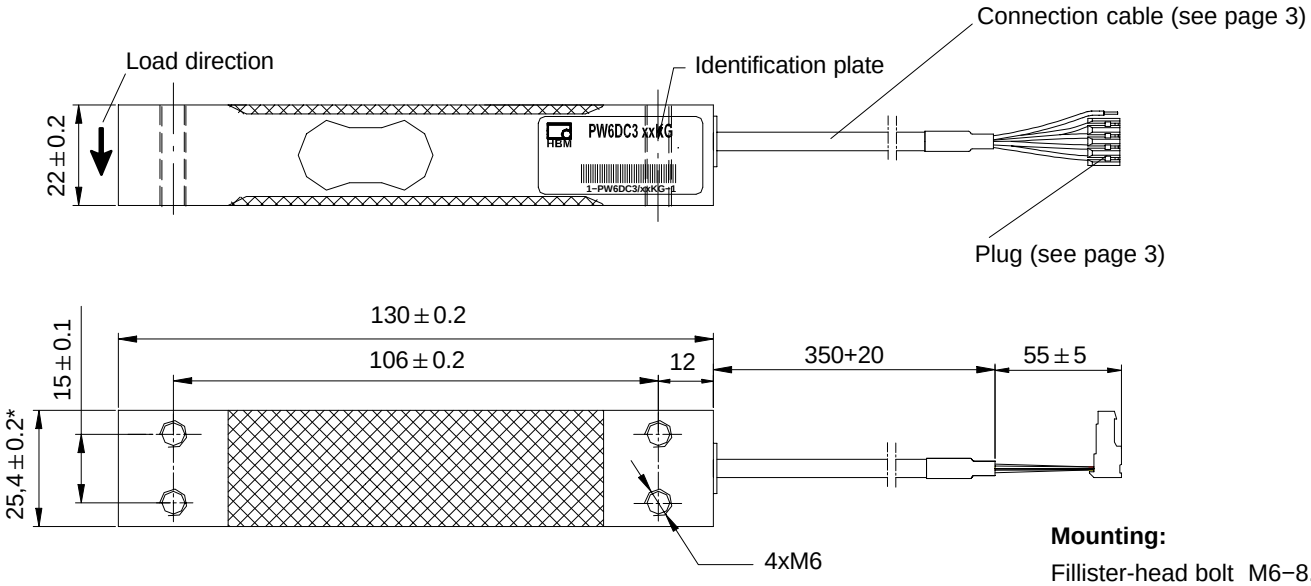
Special features

- **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**

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)



* PW6DC3MR/40 kg: 30

Mounting:

Fillister-head bolt M6−8.8

Tightening torque: 10 N·m

Specifications

Type		**PW6D...**						
Accuracy class [1]		C3, C3MR						
Maximum number of load cell intervals (n_{LC})		3000						
Maximum capacity (E_{max})	kg	3	5	10	15	20	30	40
Minimum LC verification interval (v_{min}), **(Accuracy class C3)**	g	0.5	1	2	2	5	5	10
Temperature effect on zero balance (TK_0), **(Accuracy class C3)**	% of C_n / 10 K	± 0.0233	± 0.0280	± 0.0280	± 0.0186	± 0.0350	± 0.0233	± 0.0350
Minimum LC verification interval (v_{min}), **(Accuracy class C3MR)**	g	0.2	0.5	1	1	2	2	5
Temperature effect on zero balance (TK_0), **(Accuracy class C3MR)**	% of C_n / 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_n)	mV/V	2.0 ± 0.2						
Zero signal		0 ± 0.1						
Temperature effect on sensitivity (TK_C) [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 (d_{hy}) [2]	% of C_n	± 0.0166						
Non-linearity (d_{lin}) [2]		± 0.0166						
Ratio of minimum dead load output return (DR)		± 0.0166						
Off-center load error [3]		± 0.0233						
Input resistance (R_{LC})	Ω	380 ± 38						
Output resistance (R_0)		380 ± 38						
Reference excitation voltage (U_{ref})	V	5						
Nom. range of excitation voltage (B_U)		1 ... 12						
Isolation resistance (R_{is}) at 100 V_{DC}	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 (E_L) *) ***) at max. eccentricity**	% of E_{max} mm	150 100						
Lateral load limit (E_{lq}), static	%	300						
Breaking load (E_d)	of E_{max}	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						
Degree of protection acc. to EN 60 529 (IEC 529)		IP67						
Material: Measuring body Application protection Cable sheath		Aluminum Silicone caoutchouc PVC						

[1] According to OIMLR60 with P_{LC} = 0.7

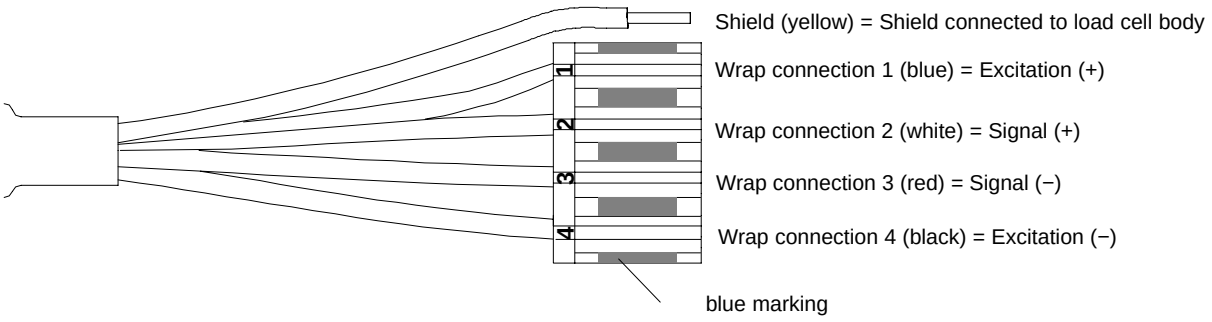
[2] The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values. The sum of these values remain within the cumulated error limit acc. to OIML R60.

[3] Nach OIML R76

Wiring code

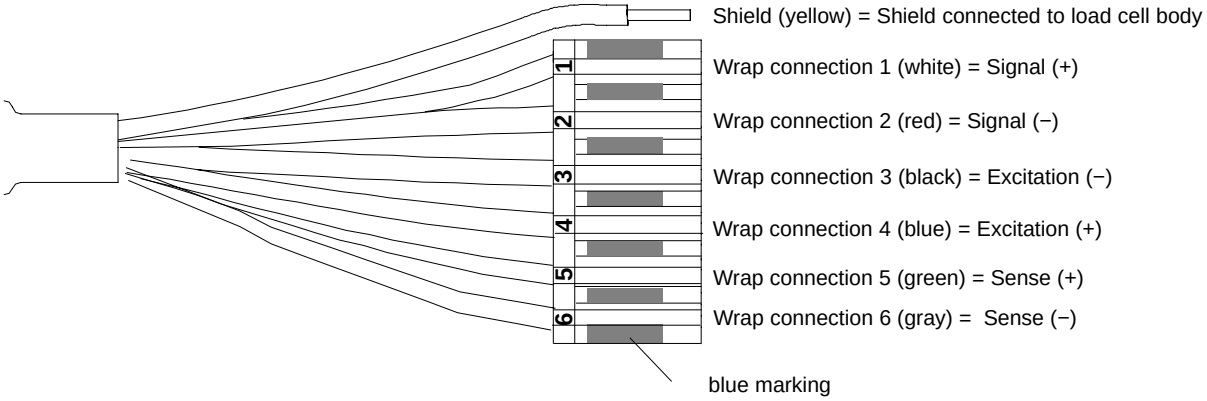
Connection with 4 wire cable (cable length: 0.35 m)

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



Connection wirh 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

PW6D... (Aluminum)

Type	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-PW6D-... (Aluminum), optional versions

Order no.	
K-PW6D	

Code	Option 1: Mechanical version	
N	-	

Code	Option 2: Accuracy	
C3	C3 (OIML)	
MR	C3-MR (OIML)	

Code	Option 3: Capacity	
3	3kg	
5	5kg	
10	10kg	
15	15kg	
20	20kg	
30	30kg	
40	40kg	

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-PW6D - [N] - [ ][ ] - [ ][ ] - [N] - [ ][ ][ ][ ][ ][ ] - [ ]