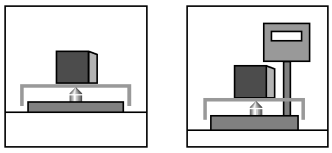
Data Sheet

PW2C...

Single point load cells

Special features

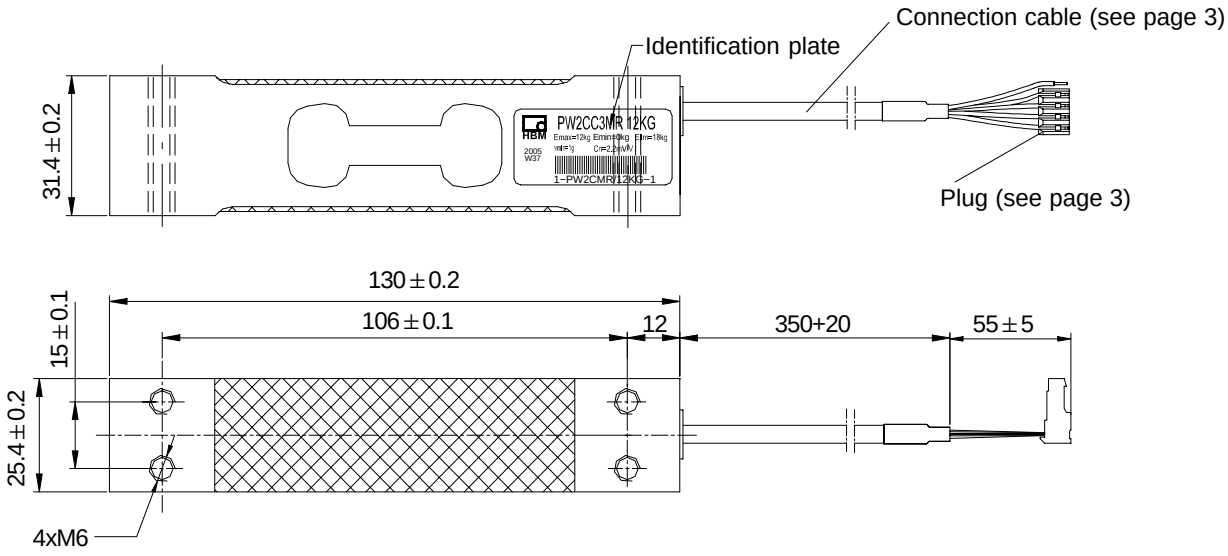
- **Accuracy class C3 with OIML-R60 test report**
- **Max. capacities: 7.2 kg ... 72 kg**
- **Off center load compensated (OIML R76)**
- **Degree of protection IP67 (according to EN 60 529)**
- **Shielded connection cable**
- **optimized for static weighing applications**



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 ≦ 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		PW2C...				
Accuracy class[1]		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	±0.0194	±0.0233	±0.0389	±0.0389	±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	±0.0097	±0.0116	±0.0155	±0.0194	±0.0194
Max. platform size	mm	380 x 380				
Sensitivity (C_n)	mV/V	2.2 ±0.2				
Zero signal	mV/V	0 ±0.12				
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				
Linearity deviation (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	300...500				
Output resistance (R_0)		300...500				
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) *)	% of E_{max}	150				
***) 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	< 0.5				
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

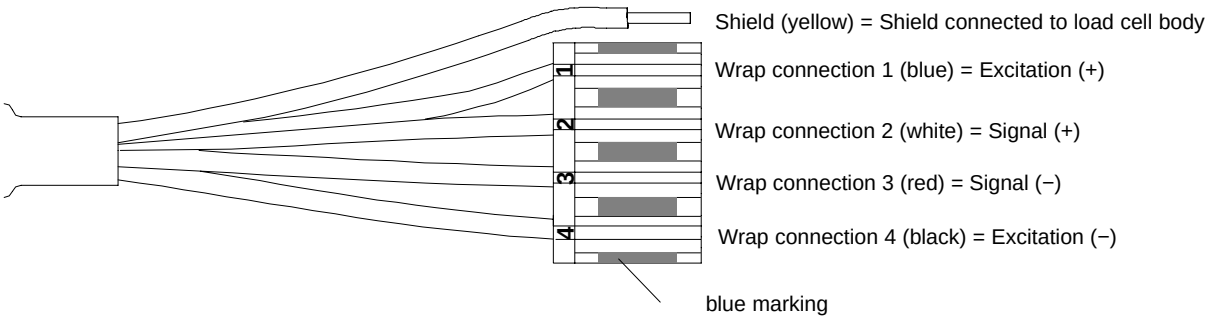
[2] The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values. The sum of these values remain within the cumulated error limit acc. to OIML R60.

[3] According to OIML R76.

Wiring code

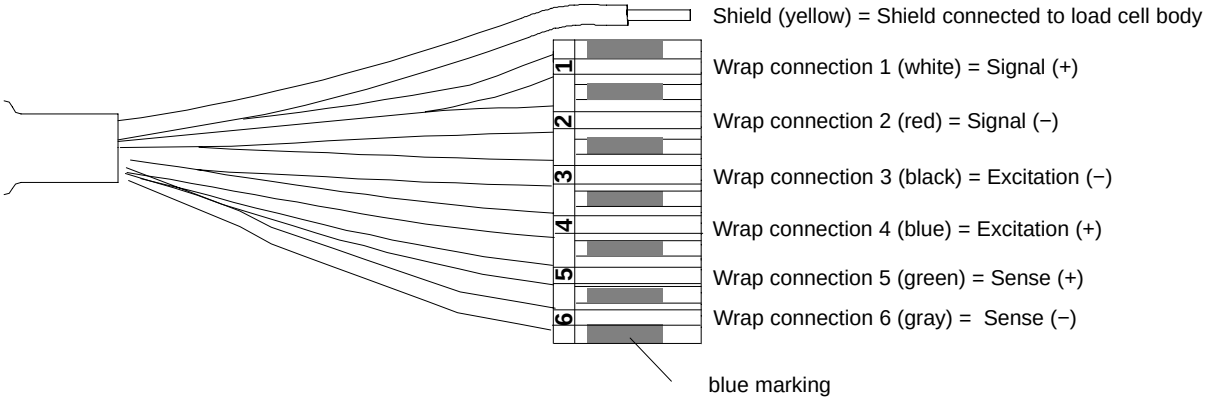
Connection with 4 wire cable (cable length: 0.35 m)

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



Connection 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

PW2C... (Aluminum)

Type	PW2C	
Accuracy	**C3-MR (OIML)**	
Note	**Cable length 0.35m (4 wire)**	
Capacity	*Order no.*	
7.2kg	1-PW2CMR/7.2KG-1	
12kg	1-PW2CMR/12KG-1	
18kg	1-PW2CMR/18KG-1	
36kg	1-PW2CMR/36KG-1	
72kg	1-PW2CMR/72KG-1	

K-PW2C-... (Aluminum), optional versions

Order no.	
K-PW2C	

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-PW2C - [N] - [ ][ ] - [ ][ ][ ] - [N] - [ ][ ][ ][ ][ ][ ] - [ ]

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