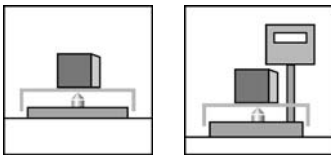**precix 6**

PW2C...
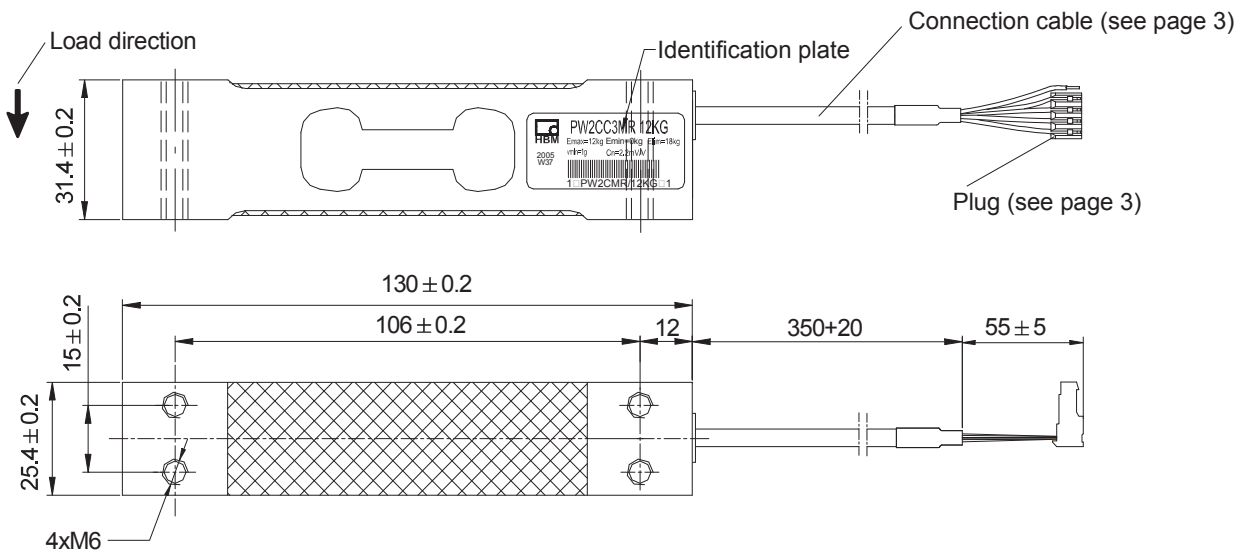## Single point load cells

Special features

- Accuracy classes C3/C3MR and C6/C6MR with OIML-R60 test report
- Max. capacities: 7.2 kg ... 72 kg
- Off center load compensated (OIML R 76)
- Degree of protection IP67 (according to EN 60 529)
- Shielded connection cable
- Optimized for static weighing applications

Optional:

- Different accuracy classes with OIML-R60 test report
- Connection cable in six wire circuit
- Different cable lengths
- Aligned output, suitable for connection in parallel

Dimensions (in mm; 1 mm = 0.03937 inches)

Load direction

Identification plate

Connection cable (see page 3)

31.4 ± 0.2

PW2CC3MR 12KG

Plug (see page 3)

15 ± 0.2

130 ± 0.2

106 ± 0.2

12

$350+20$

55 ± 5

25.4 ± 0.2

4xM6

Mounting:

Max. capacities $\leqq$ 36 kg: cylindrical head screw M6-8.8, tightening torque: 6 N·m

Max. capacities = 72 kg: cylindrical head screw 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})[2]	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) [3] in the temperature range +20 ... +40 °C [+68 ... +104 °F]	% of C_n / 10 K	± 0.0175				
10 ... +20 °C [+14 ... +68 °F]		± 0.0117				
Relative reversibility error (d_{hy}) [3]		± 0.0166				
Linearity deviation (d_{lin}) [3]		± 0.0166				
Minimum dead load output return (MDLOR)	% of C_n	± 0.0166				
Off-center load error [4]		± 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 rubber				
Cable sheath		PVC				

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

[2] Max. eccentric loading according to OIML R76

[3] 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.

[4] According to OIML R76.

Specifications (continuation)

Type		PW2C...				
Accuracy class [1]		C6, C6MR				
Maximum number of load cell intervals (n_{LC})		6000				
Maximum capacity (E_{max}) [2]	kg	7.2	12	18	36	72
Minimum LC verification interval (v_{min}), (Accuracy class C3)	g	0.5	1	2	5	10
Temperature effect on zero balance (TK_0) (Accuracy class C6)	% of C_n / 10 K	± 0.0097	± 0.0116	± 0.0155	± 0.0194	± 0.0194
Minimum LC verification interval (v_{min}), (Accuracy class C6MR)	g			1	2	
Temperature effect on zero balance (TK_0) (Accuracy class C6MR)	% of C_n / 10 K			± 0.0070	± 0.0070	
Max. platform size	mm	380 x 380				
Sensitivity (C_n)	mV/V	2.2 ± 0.2				
Zero signal		0 ± 0.12				
Temperat. effect on sensitivity (TK_C) [3] **in the temperature range** +20 ... +40 °C [+68 ... +104 °F]	% of C_n / 10 K	± 0.0087				
10 ... +20 °C [+14 ... +68 °F]		± 0.0058				
Relative reversibility error (d_{hy}) [3]	% of C_n	± 0.0083				
Non-linearity (d_{lin}) [3]		± 0.0083				
Minimum dead load output return (MDLOR)		± 0.0083				
Off-center load error [4]		± 0.0116				

[1] According to OIMLR60 with P_{LC} = 0.7
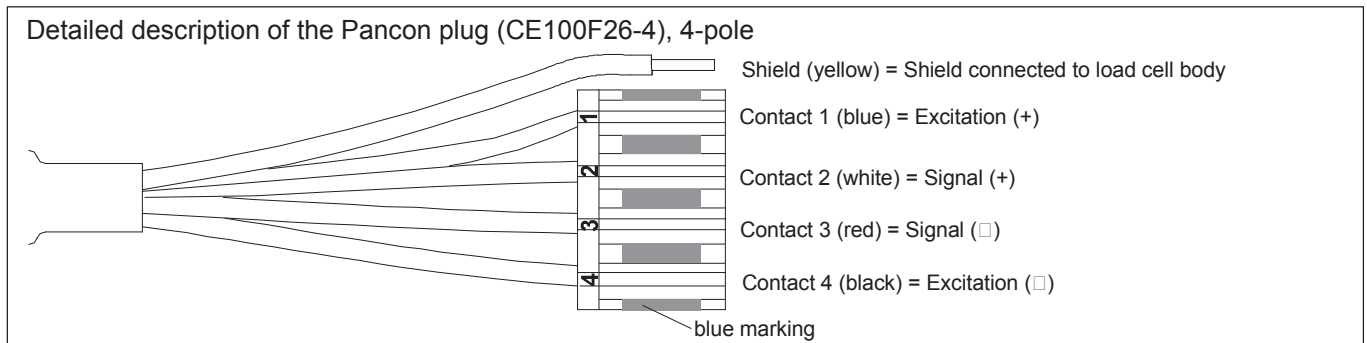
[2] Max. eccentric loading according to OIML R76

[3] 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.
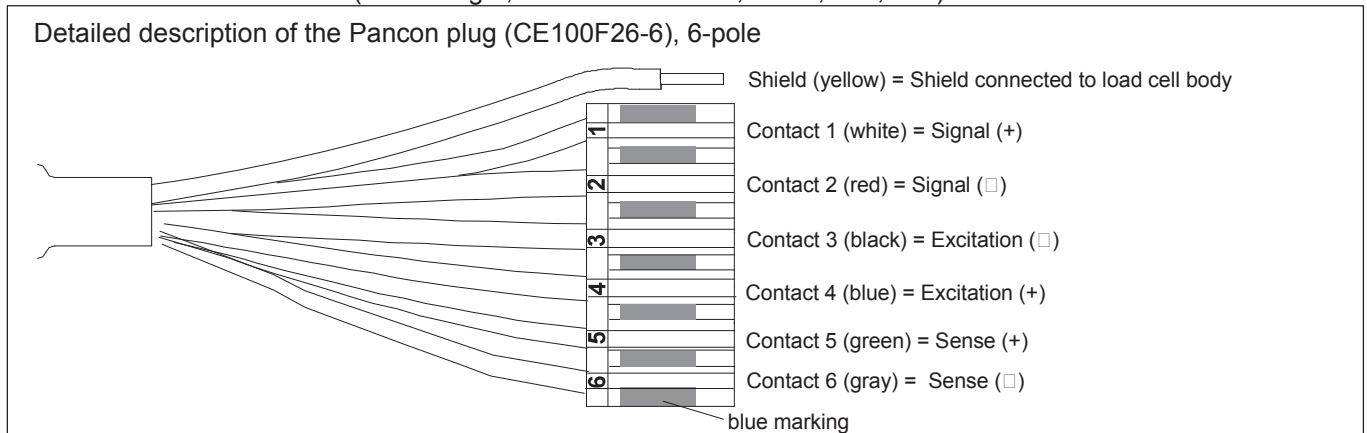
[4] According to OIML R76.

For more specifications, see table PW2C, accuracy class C3, C3MR (page 2)

Wiring code

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

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

Shield (yellow) = Shield connected to load cell body
Contact 1 (blue) = Excitation (+)
Contact 2 (white) = Signal (+)
Contact 3 (red) = Signal ( )
Contact 4 (black) = Excitation ( )
blue marking

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

Shield (yellow) = Shield connected to load cell body
Contact 1 (white) = Signal (+)
Contact 2 (red) = Signal ( )
Contact 3 (black) = Excitation ( )
Contact 4 (blue) = Excitation (+)
Contact 5 (green) = Sense (+)
Contact 6 (gray) = Sense ( )
blue marking

Ordering codes

PW2C... / K-PW2C-...   *)
Optimized for static weighing applications

PW2C... (Aluminum)

Type	PW2C			
Accuracy	**C3-MR (OIML)**		**C6 / C6MR (OIML)**	
Note	**Cable length 0.35m (4 wire)**		**Cable length 3m (6 wire)**	
Capacity	*Order no.*		*Order no.*	
7.2kg	1-PW2CMR/7.2KG-1		-	
12kg	1-PW2CMR/12KG-1		1-PW2CC6/12KG-1	
18kg	1-PW2CMR/18KG-1		1-PW2CC6MR/18KG-1	
36kg	1-PW2CMR/36KG-1		1-PW2CC6MR/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)	
C6	C6 (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 ±0.2 Ohms (aligned output, suitable for connection in parallel)	

K-PW2C - ☐N☐ - ☐☐ - ☐☐☐ - ☐N☐ - ☐☐☐☐☐☐ - ☐

*) Substituting PW2A... and PW2G...