

precix 6

## PW2C...

Single point load cells

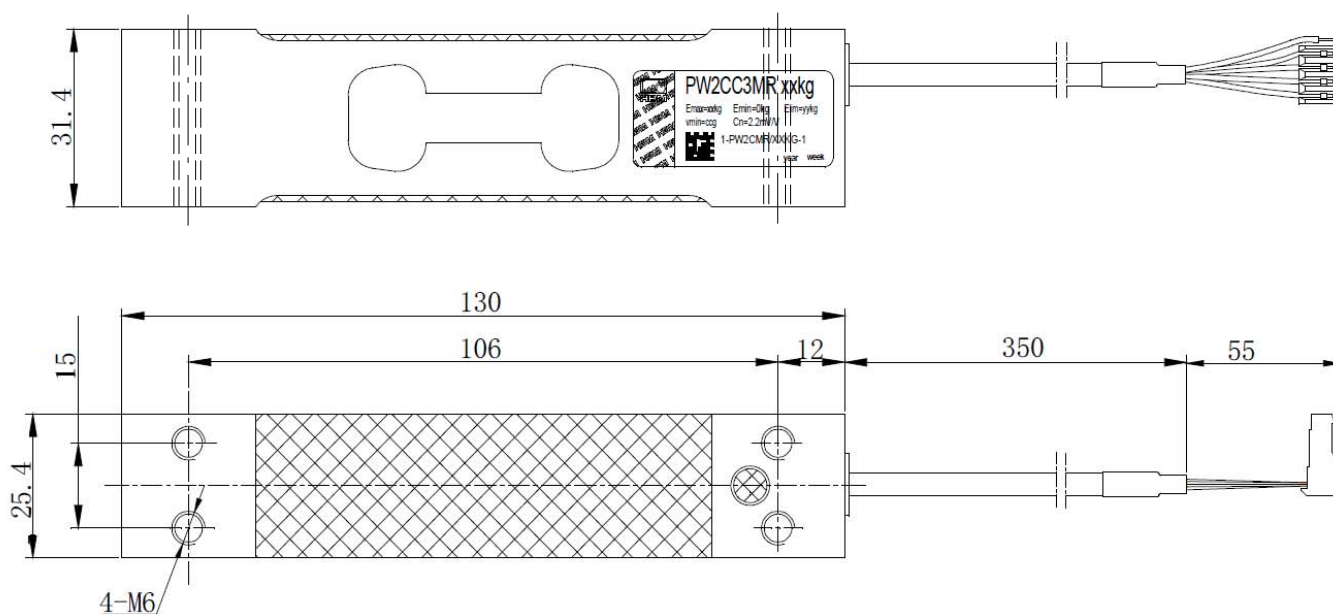
### Special features

- Max. capacities: 7.2 kg ... 72 kg
- Aluminum
- High ratio of minimum verification interval Y
- Off-center load compensation
- Shielded connection cable
- Different cable length and other options deliverable

Data sheet



Dimensions (in mm; 1 mm = 0.03937 inches)



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## Specifications

Type			PW2C...				
Accuracy class <sup>1)</sup>			C3 Multi Range (MR)				
Maximum number of load cell intervals	$n_{LC}$		3000				
Maximum capacity <sup>2)</sup>	$E_{max}$	kg	7.2	12	18	36	72
Minimum LC verification interval (Accuracy class C3MR)	$v_{min}$	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	Y		14,400	12,000	9,000	7,200	
Maximum 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 <sup>3)</sup> in the temperature range +20 ... +40 °C [+68 ... +104 °F] -10 ... +20 °C [+14 ... +68 °F]	$TK_C$	% of $C_n$ / 10 K	±0.0175 ±0.0117				
Relative reversibility error <sup>3)</sup>	$d_{hy}$	% of $C_n$	±0.0166				
Linearity deviation <sup>3)</sup>	$d_{lin}$		±0.0166				
Minimum dead load output return	MDLOR		±0.0166				
Off-center load error <sup>4)</sup>			±0.0233				
Input resistance	$R_{LC}$	Ω	300...500				
Output resistance	$R_0$		300...500				
Reference excitation voltage	$U_{ref}$	V	5				
Nominal range of excitation voltage	$B_U$		1 ... 12				
Maximum excitation voltage			15				
Isolation resistance at 100 V <sub>DC</sub>	$R_{is}$	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 at max. eccentricity	$E_L$	% of $E_{max}$	150				
Lateral load limit, static	$E_{lq}$		300				
Breaking load	$E_d$		300				
Nominal (rated) displacement at $E_{max}$ , approx.	$s_{nom}$	mm	< 0.5				
Weight, approx.	m	kg	0.25				
Degree of protection <sup>5)</sup>			IP67				
Material Measuring body Application protection Cable sheath			Aluminum Silicone rubber 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 according to OIML R60.

4) According to OIML R76.

5) According to EN 60 529 (IEC 529)

## Specifications (continuation)

Type			PW2C...				
Accuracy class <sup>1)</sup>			C6, C6 Multi Range (MR)				
Maximum number of load cell intervals	$n_{LC}$		6000				
Maximum capacity <sup>2)</sup>	$E_{max}$	kg	7.2	12	18	36	72
Minimum LC verification interval, (Accuracy class C6)	$v_{min}$	g	0.5	1	2	5	10
Temperature effect on zero balance (Accuracy class C6)	$TK_0$	% of $C_n/10\text{ K}$	$\pm 0.0097$	$\pm 0.0116$	$\pm 0.0155$	$\pm 0.0194$	
Ratio of minimum verification interval	Y		14,400	12,000	9,000	7,200	
Minimum LC verification interval (Accuracy class C6MR)	$v_{min}$	g	-	-	1	2	-
Temperature effect on zero balance (Accuracy class C6MR)	$TK_0$	% of $C_n/10\text{ K}$	-	-	$\pm 0.0077$		-
Ratio of minimum verification interval	Y		-	-	18,000		
Max. platform size		mm	380 x 380				
Sensitivity	$C_n$	mV/V	$2.2 \pm 0.2$				
Zero signal			$0 \pm 0.11$				
Temperat. effect on sensitivity <sup>3)</sup> in the temperature range +20 ... +40 °C [+68 ... +104 °F] -10 ... +20 °C [+14 ... +68 °F]	$TK_C$	% of $C_n/10\text{ K}$	$\pm 0.0087$				
			$\pm 0.0058$				
Relative reversibility error <sup>3)</sup>	$d_{hy}$	% of $C_n$	$\pm 0.0083$				
Non-linearity <sup>3)</sup>	$d_{lin}$		$\pm 0.0083$				
Minimum dead load output return	MDLOR		$\pm 0.0083$				
Off-center load error <sup>4)</sup>			$\pm 0.0116$				

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.

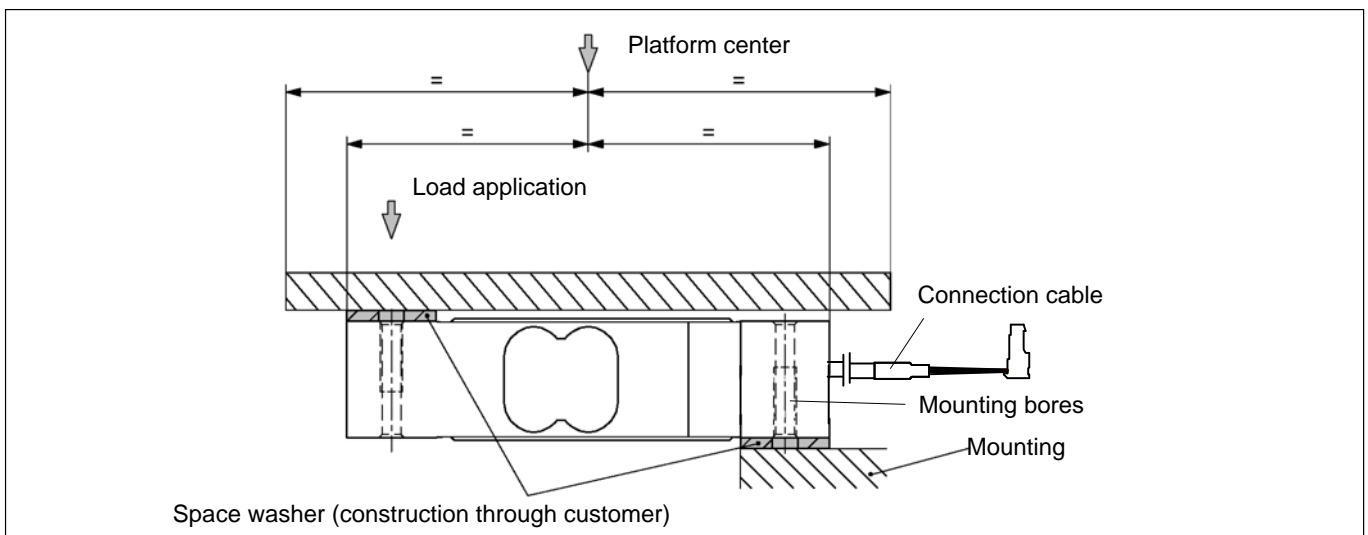
## Mounting and Load application

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

Mac. capacity	Thread	Min. property class	Tightening torque <sup>1)</sup>
7.2...36 kg	M6	8.8	6 N·m
72 kg	M6	10.9	10 N·m

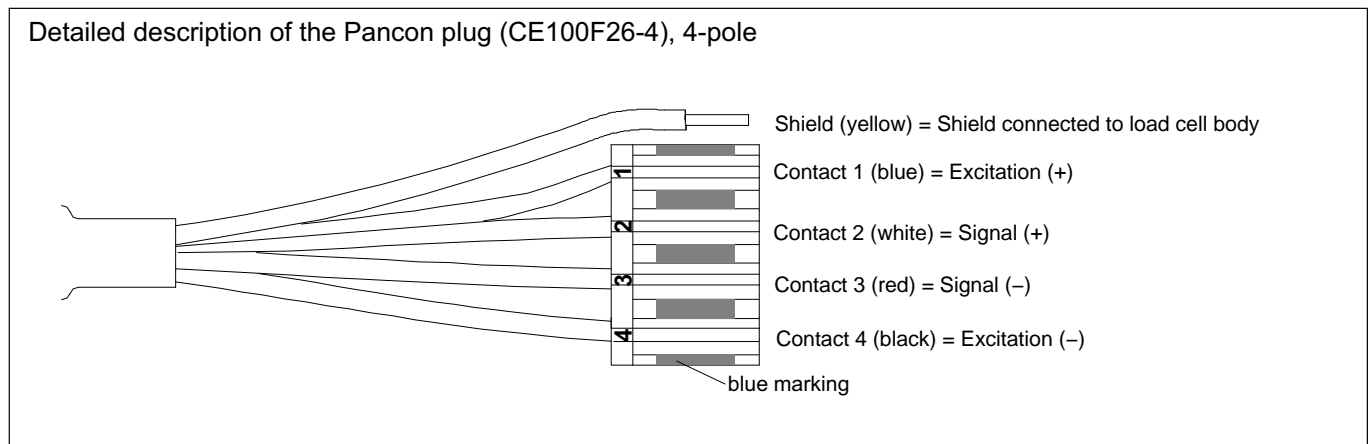
1) Recommended value for the stated property class. For screw dimensioning please refer to the appropriate information given by the screw manufacturers.

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

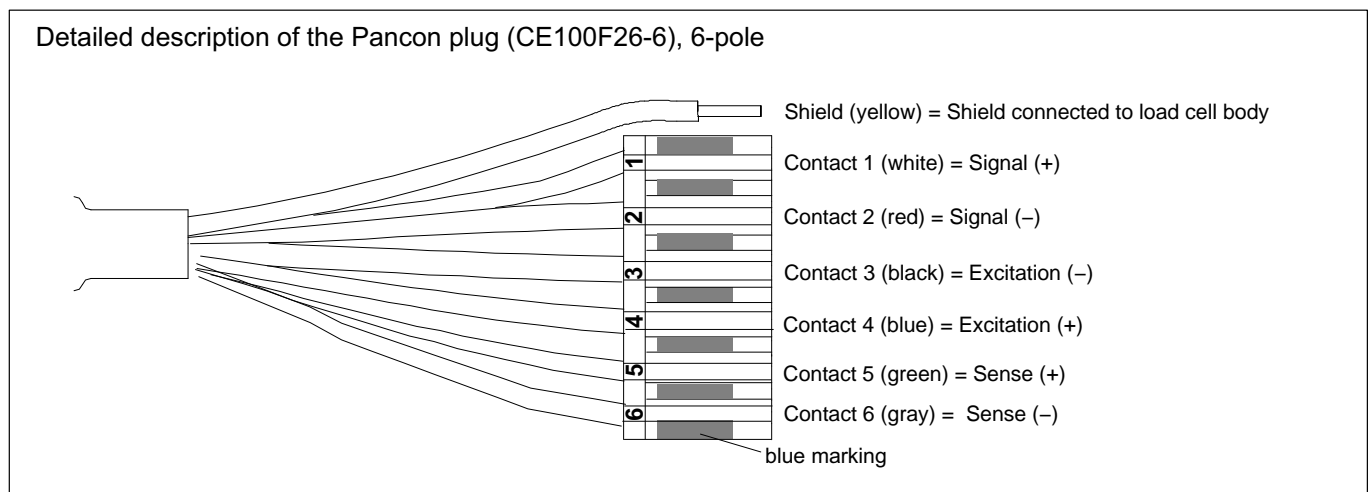


## Wiring code

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)



## Ordering codes

### PW2C... / K-PW2C-...

Optimized for static applications

### PW2C... (Aluminum)

<b>Type</b>	PW2C	
<b>Accuracy</b>	C3-MR (OIML) (Multi Range)	C6 / C6MR (OIML) (Multi Range)
<b>Note</b>	Cable lenght 0.35 m (4 wire)	Cable length 3 m (6 wire)

Capacity	Order no.	Order no.
7.2 kg	1-PW2CMR/7.2KG-1	-
12 kg	1-PW2CMR/12KG-1	1-PW2CC6/12KG-1
18 kg	1-PW2CMR/18KG-1	1-PW2CC6MR/18KG-1
36 kg	1-PW2CMR/36KG-1	1-PW2CC6MR/36KG-1
72 kg	1-PW2CMR/72KG-1	-

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

<i>Order no.</i>
<b>K-PW2C</b>

<i>Code</i>	<i>Option 1: Mechanical version</i>
<b>N</b>	-

<i>Code</i>	<i>Option 2: Accuracy</i>
<b>MR</b>	C3-MR (OIML) (Multi Range)
<b>C6</b>	C6 (OIML)
<b>C6MR</b>	C6-MR (OIML) (Multi Range) <span style="float: right;">{only with option 3 = 18 kg or 36 kg}</span>

<i>Code</i>	<i>Option 3: Capacity</i>
<b>7.2</b>	7.2 kg
<b>12</b>	12 kg
<b>18</b>	18 kg
<b>36</b>	36 kg
<b>72</b>	72 kg

<i>Code</i>	<i>Option 4: NN</i>
<b>N</b>	-

<i>Code</i>	<i>Option 5: Cable length</i>
<b>4_0.35</b>	0.35 m (4 wire) (Standard)
<b>6_0.35</b>	0.35 m (6 wire)
<b>6_1.5</b>	1.5 m (6 wire)
<b>6_3</b>	3 m (6 wire)
<b>6_6</b>	6 m (6 wire)

<i>Code</i>	<i>Option 6: Miscellaneous</i>
<b>N</b>	Without
<b>A</b>	2mV/V ±0.1% / 410 Ohm ±0.2 Ohm (aligned output, suitable for connection in parallel)

<b>K-PW2C</b>	-	<b>N</b>	-	-	-	-	<b>N</b>	-	-	-	-	-	-
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Subject to modifications.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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