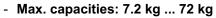


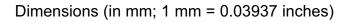
PW2C...

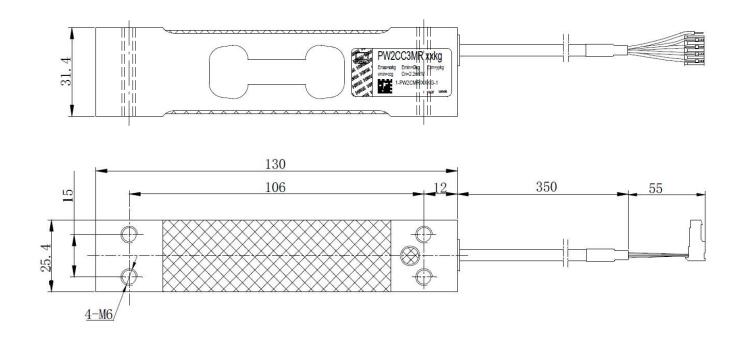
Single point load cells





- Aluminum
- High ratio of minimum verification interval Y
- Off-center load compensation
- Shielded connection cable
- Different cable length and other options deliverable







Specifications

Туре				PW2C				
Accuracy class ¹⁾				C3 Multi Range (MR)				
Maximum number of load cell intervals	n _{LC}		3000					
Maximum capacity ²⁾	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	7,2	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 ³⁾ in the temperature range +20 +40 °C [+68 +104 °F]	TK _C	% of C _n / 10 K			±0.0175			
–10 +20 °C [+14 +68 °F]			±0.0117					
Relative reversibility error 3)	d _{hy}		±0.0166					
Linearity deviation 3)	d _{lin}		±0.0166					
Minimum dead load output return	MDLOR	% of C _n	±0.0166					
Off-center load error ⁴⁾			±0.0233					
Input resistance	R _{LC}	_	300500					
Output resistance	R ₀	Ω	300500					
Reference excitation voltage	U _{ref}		5					
Nominal range of excitation voltage	B _U	V	1 12					
Maximum excitation voltage		V	15					
Isolation resistance at 100 V _{DC}	R _{is}	GΩ	> 2					
Nominal (rated) range of ambient temperature	B _T	00 (05)	-10 +40 [+14 +104]					
Operating temperature range	B _{tu}	°C [°F]	-10 +50 [+14 +122]					
Storage temperature range	Btl		-25 +70 [-13 +158]					
Limit load at max. eccentricity	EL		150					
Lateral load limit, static	E _{lq}	% of E _{max}	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 ⁵⁾					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)

Туре				PW2C				
Accuracy class 1)				C6, C6 Multi Range (MR)				
Maximum number of load cell intervals	n _{LC}	6000						
Maximum capacity ²⁾	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 K	±0.0097	±0.0116	± 0.0155	± 0.0155 ± 0.0194		
Ratio of minimum verification interval	Y		14,400 12,000 9,000 7,200			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 K	-	-	±0.0077 -			
Ratio of minimum verification interval	Y		18,000					
Max. platform size		mm	380 x 380					
Sensitivity	C _n	mV/V	2.2 ±0.2					
Zero signal		IIIV/V	0 ±0.11					
Temperat. effect on sensitivity ³⁾ in the temperature range	TV	0/ of C / 10 K						
+20 +40 °C [+68 +104 °F]	TK _C	% of C _n / 10 K	± 0.0087					
-10 +20 °C [+14 +68 °F]			±0.0058					
Relative reversibility error ³⁾	d _{hy}		±0.0083					
Non-linearity ³⁾	d _{lin}	% of C	± 0.0083					
Minimum dead load output return	MDLOR	% of C _n	±0.0083					
Off-center load error ⁴⁾			±0.0116					

 $^{^{1)}}$ According to OIMLR60 with P_{LC} = 0.7

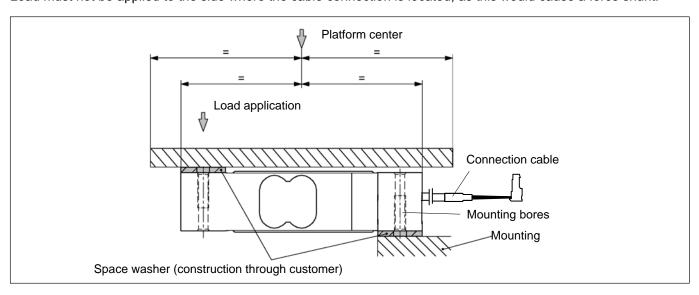
Mounting and Load application

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. propertiy class	Tightening torque ¹⁾
7.236 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.



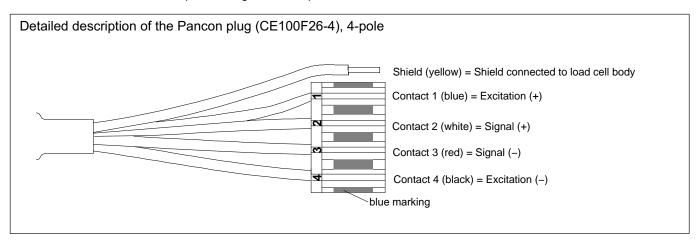
²⁾ Max. eccentric loading according to OIML R76

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.

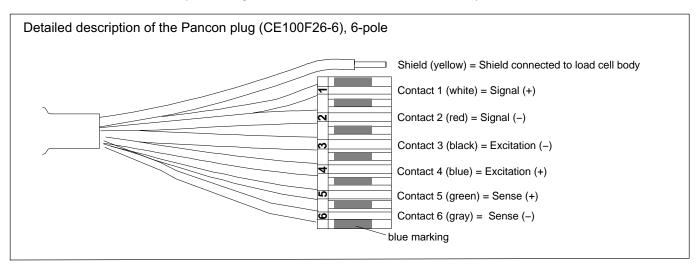
⁴⁾ According to OIML R76.

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)

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

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

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

der no. PW2C									
Code	Option 1	1: Mechar	nical versi	on					
N	-		. modiumodi volodi						
	Code	Ontion	2: Accura	CV					
	MR			<i>∕</i> Iulti Rang	ıe)				
	C6	C6 (OIN			1-7				
	C6MR		-	/lulti Rang	je)	{only with option 3 = 18 kg or 36 kg			
		Code	Ontion	3: Capaci	tv				
		7.2	7.2 kg	э. Сарасі	ıy				
		12	12 kg						
		18	18 kg						
		36	36 kg						
		72	72 kg						
			Code	Option	4· NN				
			N	-					
				0-4-	04:	E. Oabla landle			
				Code 4_0.35		5: Cable length (4 wire) (Standard)			
				6_0.35					
				6_1.5	1.5 m (6				
				6_3	3 m (6 v	*			
				6_6	6 m (6 v	wire)			
					Code	Option 6: Miscellaneous			
					N	Without			
					A	2mV/V ±0.1% / 410 Ohm ±0.2 Ohm			
						(aligned output, suitable for connection in parallel)			
		L		$\overline{}$					