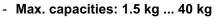


PW6C

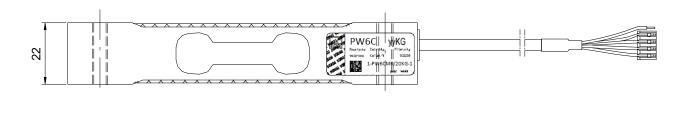
Single point load cells

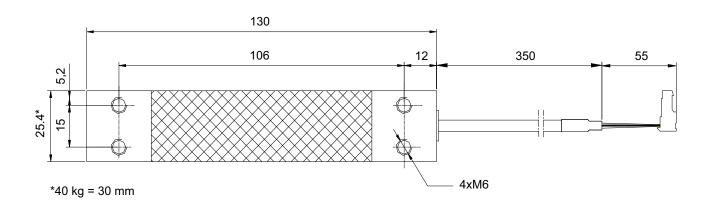




- Aluminum
- Accuracy class C3MR & C6
- Off center load compensated
- Shielded connection cable
- Different cable lengths and other options deliverable

Dimensions (in mm; 1 mm = 0.03937 inches)







Specifications

Туре				PW6C							
Accuracy class 1)			C3 Multi Range (MR)								
Number of load cell verification intervals	n _{LC}		3000								
Maximum capacity	E _{max}	kg	1.5	3	5	10	15	20	30	40	
Minimum load cell verification interval	V _{min}	g	0.1	0.2	0.5		1	2		5	
Temperature coefficient of zero signal	TK ₀	% of C _n /10K	±0.0	093	±0.	±0.0140 ±0.0093		±0.0140	±0.0093	±0.0175	
Ratio of minimum verification interval	Y		15,	000	10,000 15,000		10,000	15,000	8,000		
Max. platform size		mm					300 x 300)			
Sensitivity	C _n	m)//\/	2.2 ±0.2								
Zero signal		mV/V	0 ±0.12			0 ±0.12					
Temperature effect on sensitivity ²) 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 ²⁾	d _{hy}		±0.0166								
Non-linearity ²⁾	d _{lin}		±0.0166								
Ratio of minimum dead load output return	MDLOR	% of C _n	±0.0166								
Off-center load error ³⁾	±0.0233										
Input resistance	R _{LC}	Ω	300500								
Output resistance	R ₀	12	300500								
Reference excitation voltage	U _{ref}	\ \	5								
Nom. range of excitation voltage	B _U	V	1 12								
Max. excitation voltage		V	15								
Isolation resistance at 100 V _{DC}	R _{is}	GΩ	> 2								
Nominal (rated) range of ambient temperature	B _T		-10 +40 [+14 +104]								
Operating temperature range	B _{tu}	°C [°F]	-10 +50 [+14 +122]								
Storage temperature range	B _{tl}		-25 +70 [-13 +158]								
Limit load	EL	% of E _{max}	150								
at max. eccentricity		mm					100				
Lateral load limit, static	E _{lq}	% of					300				
Breaking load	E _d	E _{max}					300				
Nominal (rated) displacement at E _{max} , approx.	S _{nom}	mm	< 0.5								
Weight, approx.	m	kg					0.25				
Degree of protection ⁴⁾			IP67								
Material									<u> </u>	<u> </u>	
Measuring body Application protection Cable sheath			Aluminum Silicone rubber PVC								

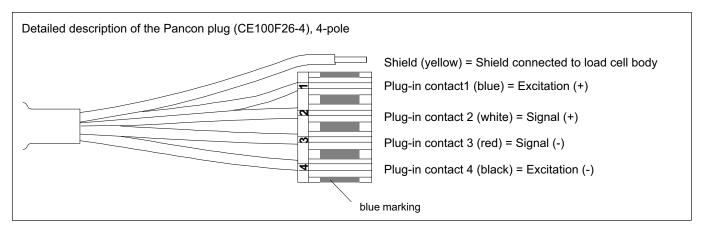
According to OIMLR60 with P_{LC} = 0.7
 The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values. The sum of these values remain within the cumulated error limit acc. to OIML R60.
 According to OIML R76.
 According to EN60529 (IEC529)

Specifications (continuation)

Туре				PW6C					
Accuracy class ¹⁾				C6					
Maximum number of load cell intervals	n _{LC}		6000						
Maximum capacity	E _{max}	kg	3	5	10	15	20	30	40
Minimum LC verification interval	V _{min}	g	0.2	0.5	1	1	2	2	5
Temperature effect on zero balance	TK ₀	% 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	> / / / /	2.2 ±0.2						
Zero signal		mV/V 0 ±0.10							
Temperature effect on sensitivity ²⁾ in the temperature range +20 +40 °C [+68 +104 °F] -10 +20 °C [+14 +68 °F]	TK _C	% of C _n / 10 K	±0.0087 ±0.0058						
Relative reversibility error ²⁾	d _{hy}		±0.0083						
Non-linearity ²⁾	d _{lin}	0/ 04 0	± 0.0083						
Ratio of minimum dead load output return	DR	DR % of C _n		± 0.0083					
Off-center load error ³⁾			± 0.0116						

Wiring code

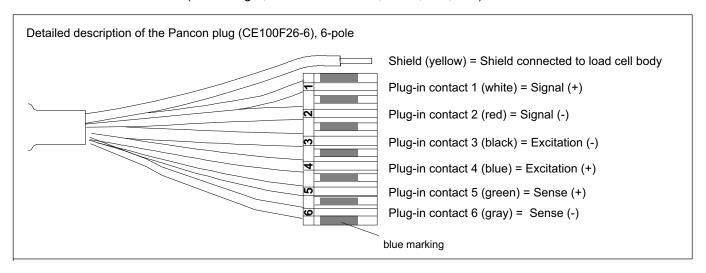
Connection with 4 wire cable (cable length: 0.35 m)



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.

Connection with 6 wire cable (cable length, selectable: 0.35 m; 1.5 m; 3 m; 6 m)



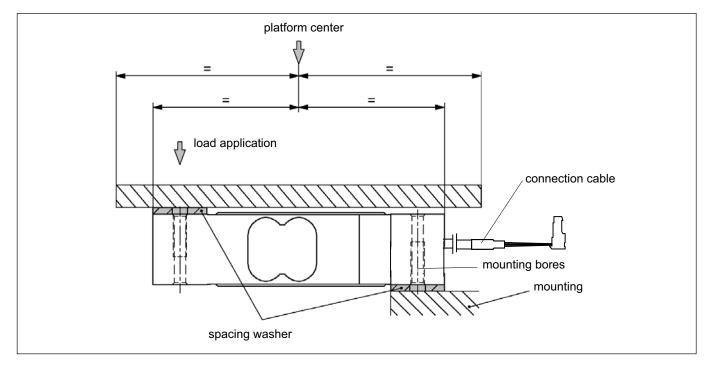
Mounting and Load application

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

Max. capacity	Thread	Min. property class	Tightening torque ¹⁾		
1.540 kg	M6	8.8	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.

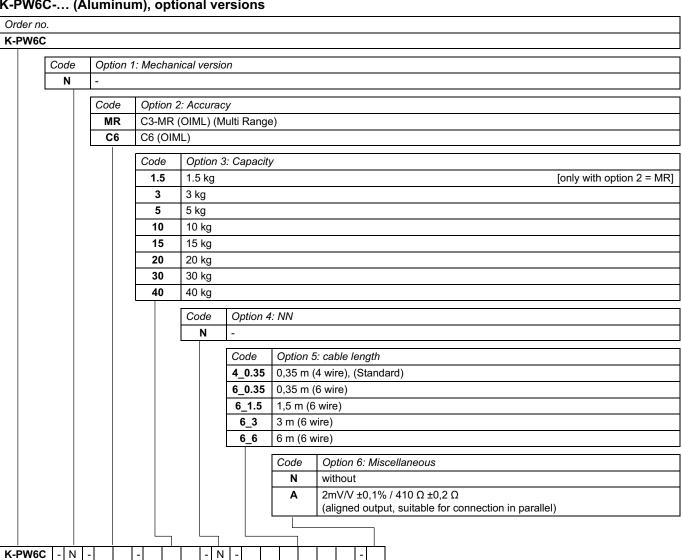


Ordering codes

PW6C... (Aluminum)

Туре	PW6C
Accuracy	C3-MR (OIML) (Multi Range)
Note	Cable length 0.35 m (4 wire)
Capacity [kg]	Order no.
1.5	1-PW6CMR/1.5KG-1
3	1-PW6CMR/3KG-1
5	1-PW6CMR/5KG-1
10	1-PW6CMR/10KG-1
15	1-PW6CMR/15KG-1
20	1-PW6CMR/20KG-1
30	1-PW6CMR/30KG-1
40	1-PW6CMR/40KG-1

K-PW6C-... (Aluminum), optional versions



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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