

PW6D

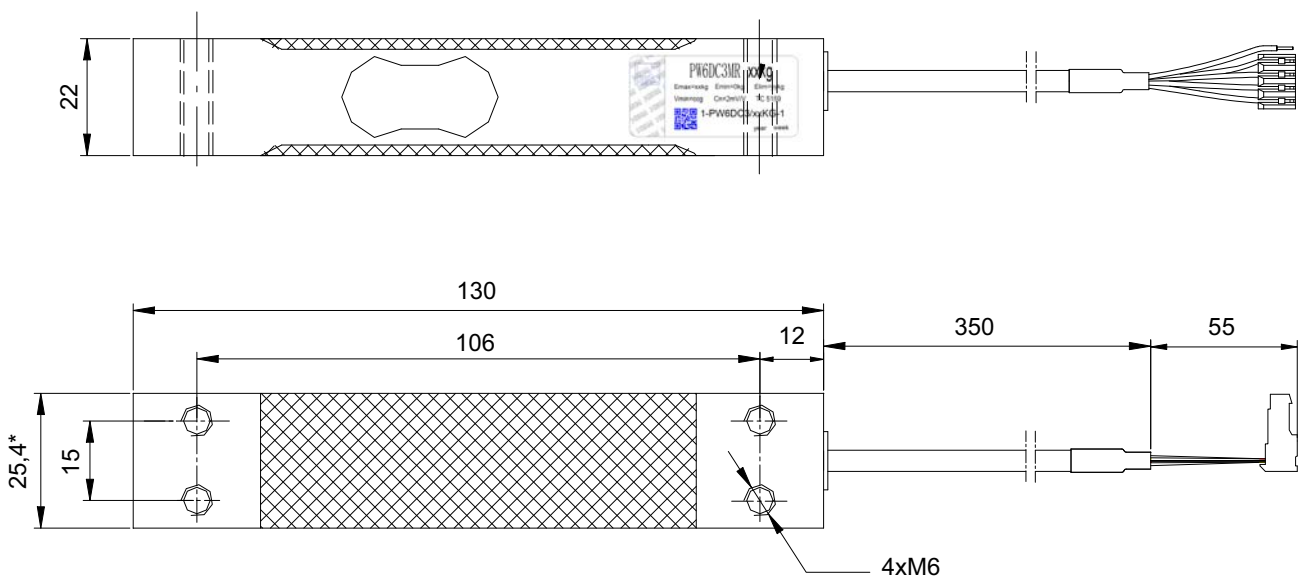
Single point load cells

Special features

- Max. capacities: 3 kg ... 40 kg
- Aluminum
- High ratio of minimum verification interval Y
- Optimized for dynamic weighing applications
- Different cable length and other options deliverable



Dimensions (n mm; 1 mm = 0.03937 inches)



* PW6DC3MR/40 kg: 30

Specifications

Type			PW6D...						
Accuracy class ¹⁾			C3 Multi Range (MR)						
Maximum number of load cell intervals	n _{LC}		3000						
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
Ratio of minimum verification interval	Y		15.000	10.000	10.000	15.000	10.000	15.000	8.000
Max. platform size		mm	300 x 300						
Sensitivity	C _n	mV/V	2.0 ± 0.2						
Zero signal			0 ± 0.1						
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}	% of C _n	± 0.0166						
Non-linearity ²⁾	d _{lin}		± 0.0166						
Ratio of minimum dead load output return	DR		± 0.0166						
Off-center load error ³⁾			± 0.0233						
Input resistance	R _{LC}	Ω	380 ± 38						
Output resistance	R ₀		380 ± 38						
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 _{DC}	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	E _L	% of E _{max}	150						
at max. eccentricity		mm	100						
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	< 0.18	< 0.18	< 0.19	< 0.21	< 0.23	< 0.28	< 0.29
Natural frequency, approx.		Hz	270	390	500	600	675	760	790
Weight, approx.	m	kg	0.25						
Degree of protection ⁴⁾			IP67						
Material: Measuring body Application protection Cable sheath			Aluminum Silicone caoutchouc PVC						

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

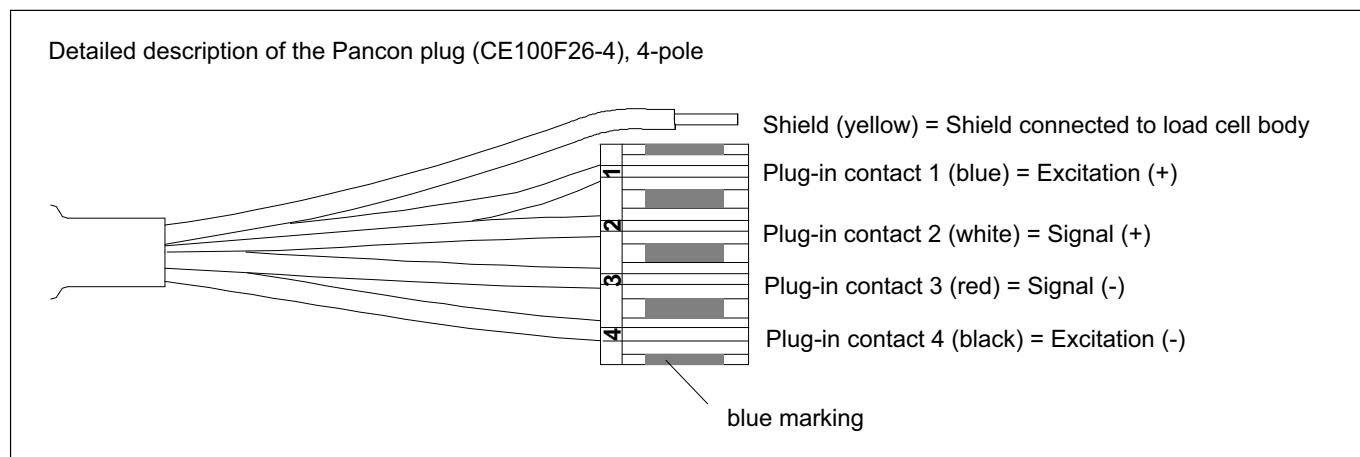
²⁾ The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values. The sum of these values remain within the cumulated error limit according to OIML R60.

³⁾ According to OIML R76

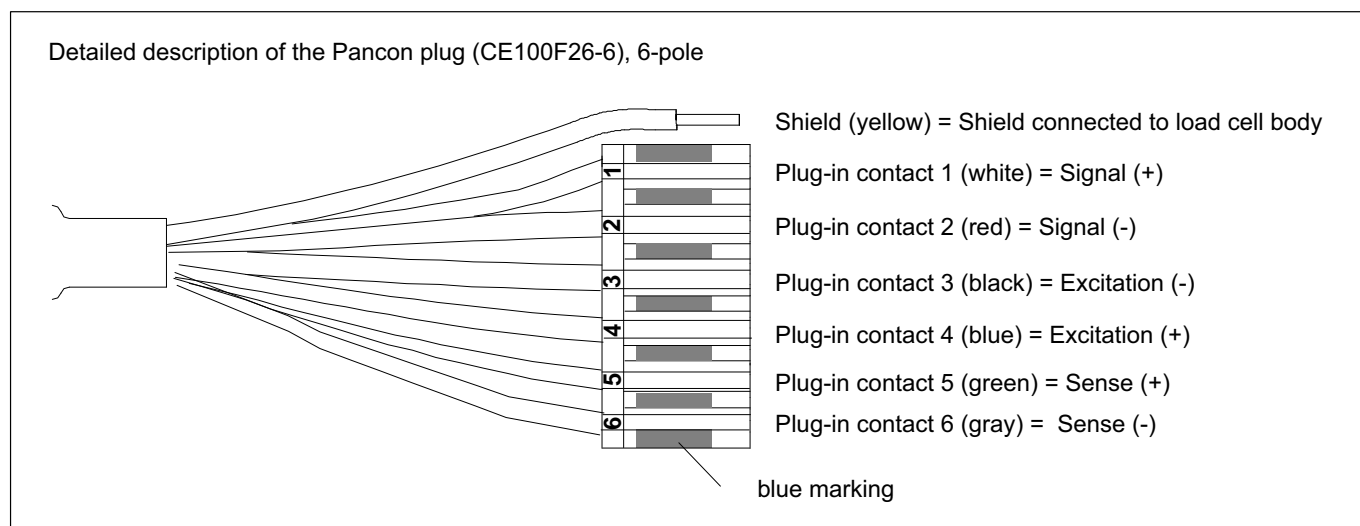
⁴⁾ According to EN 60 529 (IEC 529)

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)



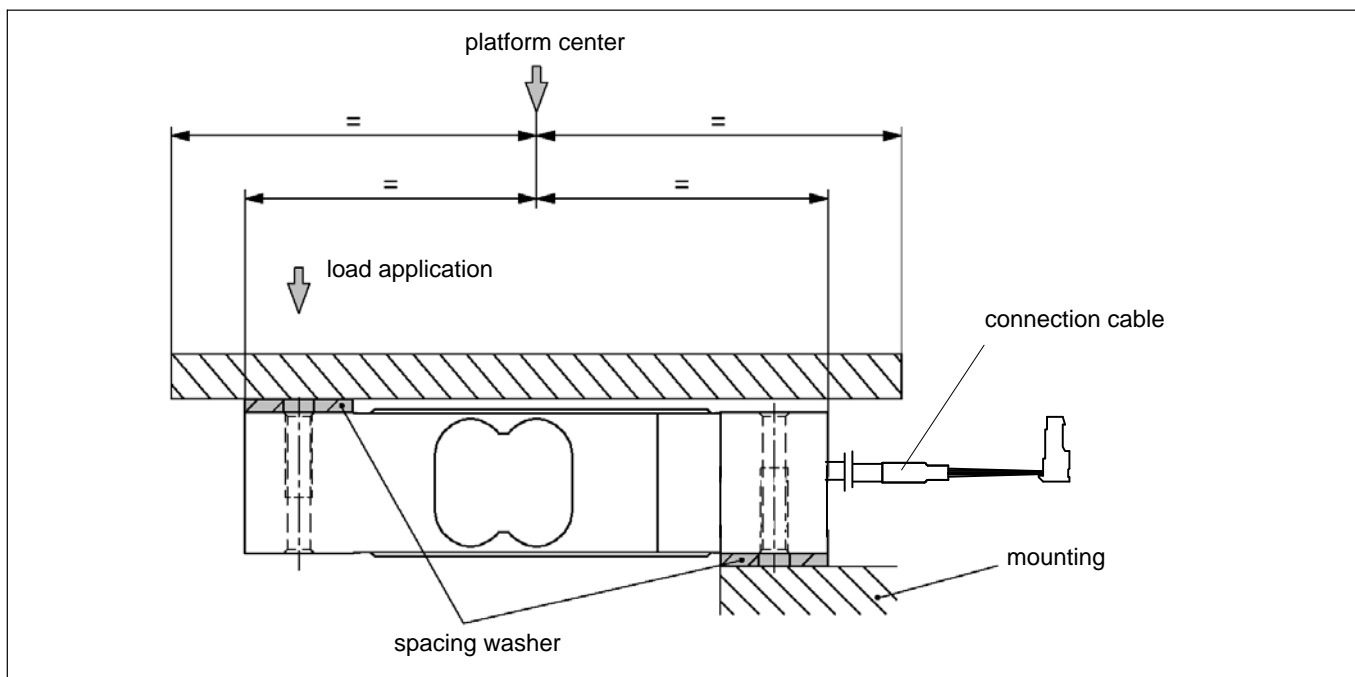
Mounting and load application

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⁾
3...40 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 designations (overview)

PW6D... (Aluminium)

Type	PW6D
Accuracy	C3-MR (OIML) (Multi Range)
Note	Cable length 0.35 m (4 wire)

Capacity [kg]	Order no.
3	1-PW6DC3/3KG-1
5	1-PW6DC3/5KG-1
10	1-PW6DC3/10KG-1
15	1-PW6DC3/15KG-1
20	1-PW6DC3/20KG-1
30	1-PW6DC3/30KG-1
40	1-PW6DC3/40KG-1

K-PW6D-... (Aluminium), optional versions

Order no.
K-PW6D

Code	Option 1: Mechanical version
N	-

Code	Option 2: Accuracy
MR	C3-MR (OIML) (Multi Range)

Code	Option 3: Capacity
3	3 kg
5	5 kg
10	10 kg
15	15 kg
20	20 kg
30	30 kg
40	40 kg

Code	Option 4: NN
N	-

Code	Option 5: Cable length
4_0.35	0.35 m (4 wire), (Standard)
6_0.35	0.35 m (6 wire)
6_1.5	1.5 m (6 wire)
6_3	3 m (6 wire)
6_6	6 m (6 wire)

Code	Option 6: Miscellaneous
N	without
A	2mV/V $\pm 0,1\%$ / 410 $\Omega \pm 0,3 \Omega$ (aligned output, suitable for connection in parallel)

K-PW6D	-	N	-		-		-	N	-						-	
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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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