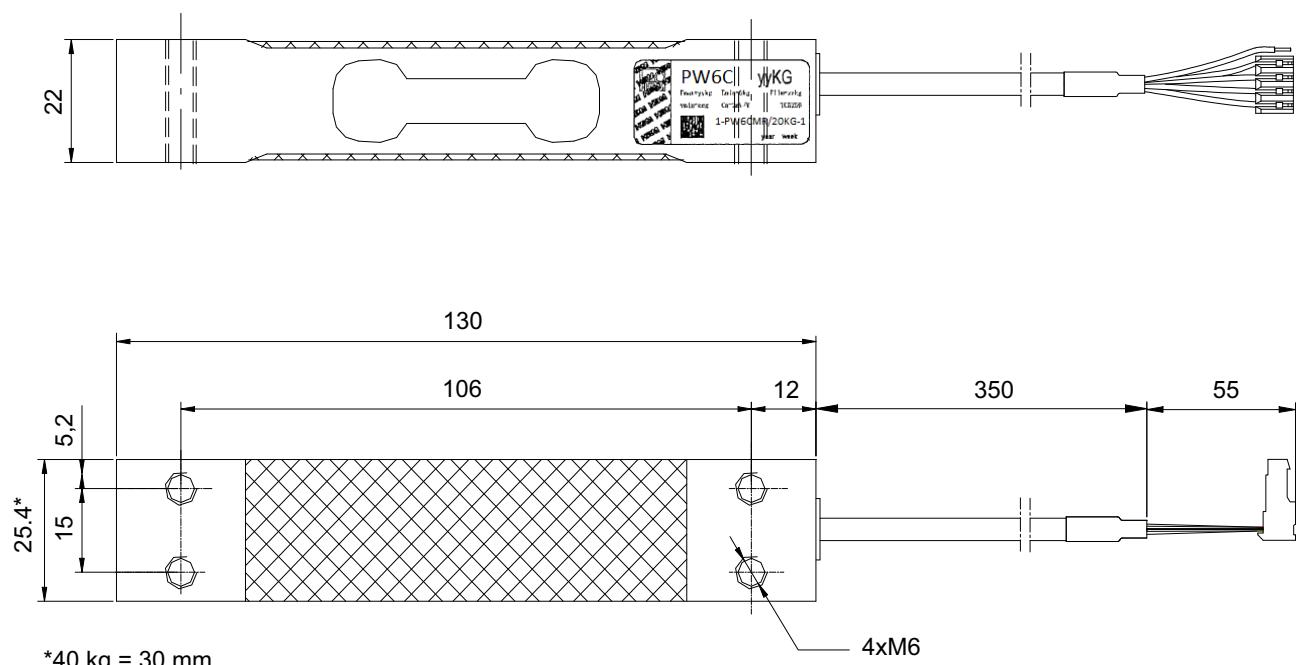




Special features

- Max. capacities: 1.5 kg ... 40 kg
- 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

Type			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	±0.0093		±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	mV/V	2.2 ±0.2										
Zero signal			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}	% of C _n	±0.0166										
Non-linearity ²⁾	d _{lin}		±0.0166										
Ratio of minimum dead load output return	MDLOR		±0.0166										
Off-center load error ³⁾			±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										
Max. excitation voltage		V	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 at max. eccentricity	E _L	% of E _{max} mm	150 100										
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	< 0.5										
Weight, approx.	m	kg	0.25										
Degree of protection ⁴⁾			IP67										
Material			Aluminum Silicone rubber PVC										
Measuring body			Aluminum										
Application protection			Silicone rubber										
Cable sheath			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 acc. to OIML R60.

3) According to OIML R76.

4) According to EN60529 (IEC529)

Specifications (continuation)

Type	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	mV/V	2.2 \pm 0.2								
Zero signal			0 \pm 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}	% of C_n	± 0.0083								
Non-linearity ²⁾	d_{lin}		± 0.0083								
Ratio of minimum dead load output return	DR		± 0.0083								
Off-center load error ³⁾			± 0.0116								

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

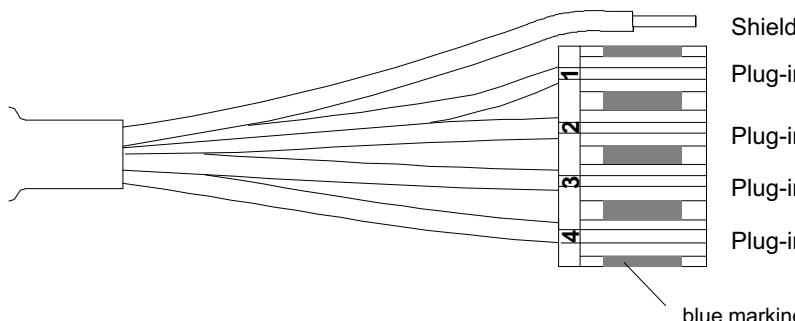
2) The values for linearity deviation (d_{lin}), relative reversibility error (d_{hy}) and temperature effect on sensitivity (TK_C) are recommended values.
The sum of these values remain within the cumulated error limit acc. to OIML R60.

3) According to OIML R76.

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

Plug-in contact1 (blue) = Excitation (+)

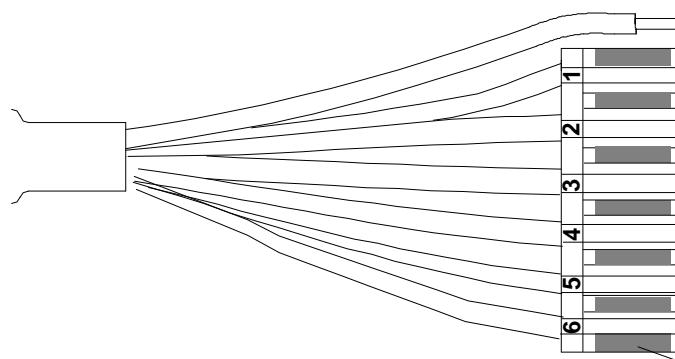
Plug-in contact 2 (white) = Signal (+)

Plug-in contact 3 (red) = Signal (-)

Plug-in contact 4 (black) = Excitation (-)

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

Plug-in contact 1 (white) = Signal (+)

Plug-in contact 2 (red) = Signal (-)

Plug-in contact 3 (black) = Excitation (-)

Plug-in contact 4 (blue) = Excitation (+)

Plug-in contact 5 (green) = Sense (+)

Plug-in contact 6 (gray) = Sense (-)

blue marking

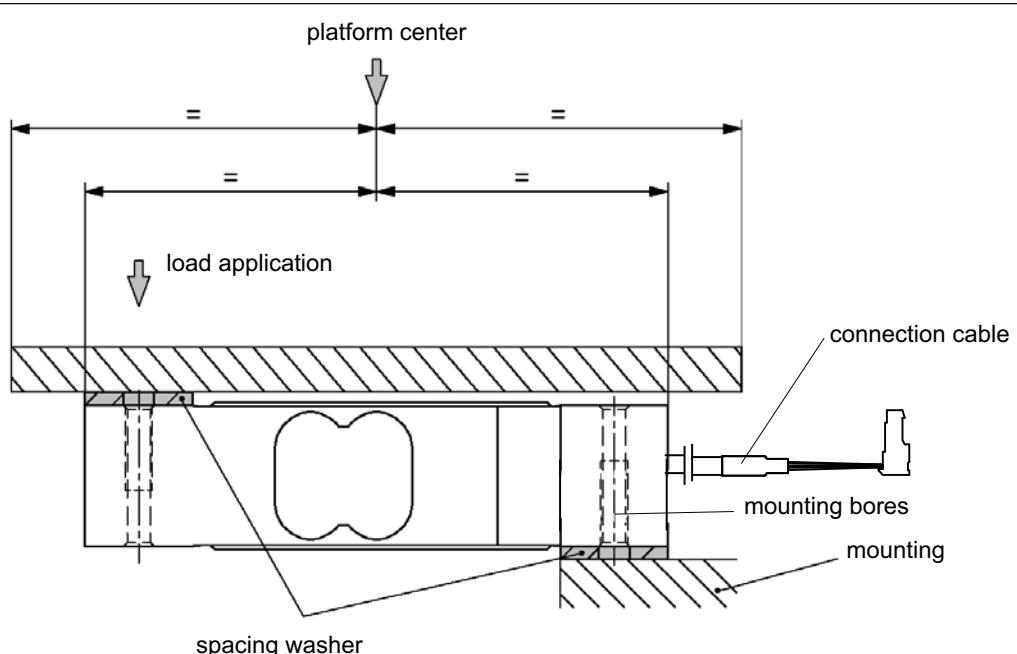
Mounting and Load application

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⁾
1.5...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 codes

PW6C... (Aluminum)

Type	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

Order no.
K-PW6C

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

Code	<i>Option 2: Accuracy</i>
MR	C3-MR (OIML) (Multi Range)
C6	C6 (OIML)

Code	Option 3: Capacity	
1.5	1.5 kg	[only with option 2 = MR]
3	3 kg	
5	5 kg	
10	10 kg	
15	15 kg	
20	20 kg	
30	30 kg	
40	40 kg	

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

Code	<i>Option 5: cable length</i>
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	<i>Option 6: Miscellaneous</i>
N	without
A	2mV/V \pm 0,1% / 410 Ω \pm 0,2 Ω (aligned output, suitable for connection in parallel)

K-PW6C - N - - - - N - - - - - - - - - -

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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