

## Data sheet

- **Maximum capacities: 6 kg ... 90 kg**
- **Aluminum**
- **High ratio of minimum verification interval Y**
- **Integrated overload protection (Patent pending)**
- **Optimized for dynamic weighing applications**
- **Explosion protection, protection housing and other options deliverable**

## Specifications

Type			PW22...					
Accuracy class <sup>1)</sup>			C3 Multi Range (MR)					
Maximum number of load cell intervals	$n_{LC}$		3000					
Maximum capacity	$E_{max}$	kg	6	10	20	30	50	90
Minimum LC verification interval	$v_{min}$	g	0.5	1	2	2	5	10
Max. platform size		mm	400 x 400					
Sensitivity	$C_n$	mV/V	1.9 ±0.1					
Zero signal (without pre load)			0 ±0.1					
Temperature effect on zero balance	$TK_0$	% of $C_n$ / 10 K	±0.0117	±0.0140	±0.0140	±0.0093	±0.0140	±0.0155
Ratio of minimum verification interval	Y		12,000	10,000	10,000	15,000	10,000	9,000
Temperature effect on sensitivity <sup>2)</sup> in the temperature range +20 ... +40 °C -10 ... +20 °C	$TK_c$	% of $C_n$ / 10 K	±0.0175 ±0.0117					
Relative reversibility error <sup>2)</sup>	$d_{hy}$	% of $C_n$	±0.0166					
Linearity deviation <sup>2)</sup>	$d_{lin}$		±0.0166					
Ratio of minimum dead load output return	DR		±0.0166					
Off-center load error <sup>3)</sup>			±0.0233					
Input resistance	$R_{LC}$	$\Omega$	300...500					
Output resistance	$R_0$		300...500					
Reference excitation voltage	$U_{ref}$	V	5					
Nominal range of excitation voltage	$B_U$	V	1...12					
Max. excitation voltage		V	15					
Isolation resistance at 100 V <sub>DC</sub>	$R_{is}$	G $\Omega$	> 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 120 mm eccentricity	$E_L$	% of $E_{max}$	150					
Lateral load limit, static	$E_{lq}$		> 300					
Permissible dyn. load; with max. 50 mm eccentricity	$F_{srel}$		70					
Breaking load at 20 mm eccentricity	$E_d$		500					
Nominal (rated) displacement at $E_{max}$ , approx.	$s_{nom}$	mm	< 0.2					
Resonance frequency, without load, approx.		Hz	280	380	540	660	866	1015
Weight, approx.	G	kg	0.5					
Degree of protection <sup>4)</sup>			IP67					
Material Measuring body Application protection Cable sheath			Aluminum Silicone rubber PVC					

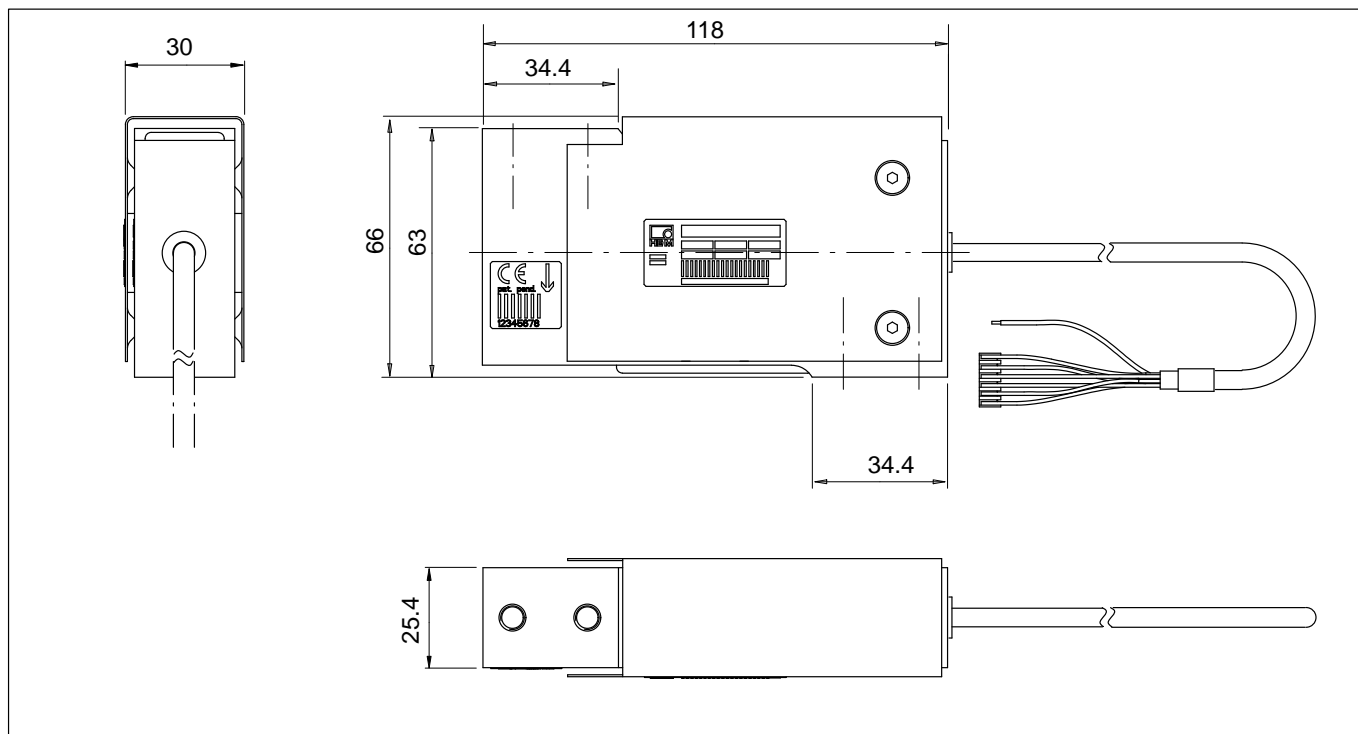
<sup>1)</sup> According to OIMLR60 with  $P_{LC} = 0.7$

<sup>2)</sup> 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

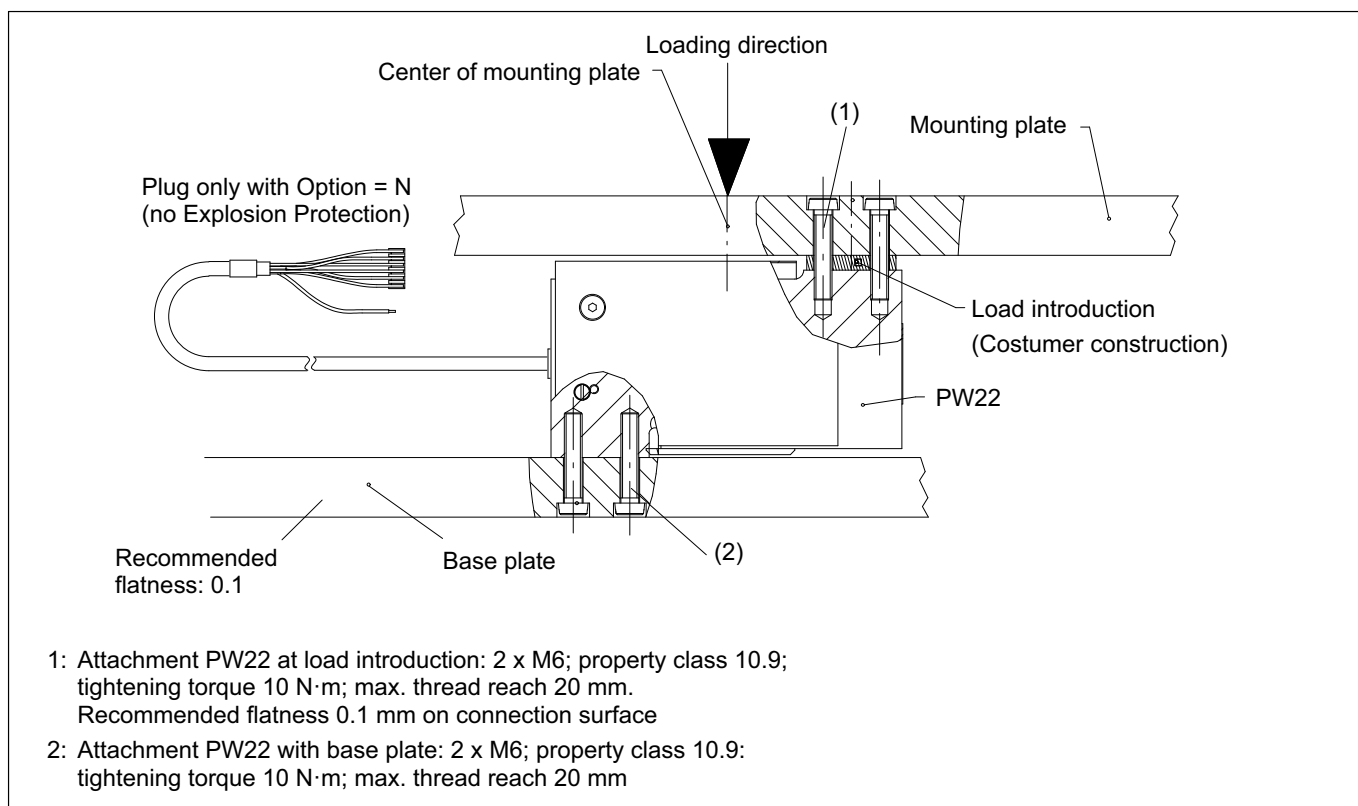
<sup>3)</sup> Loaded with 30 % of the max. capacity at 142 mm eccentricity (acc. to OIML R76)

<sup>4)</sup> According to EN 60 529 (IEC 529)

## Dimensions for version with protection housing

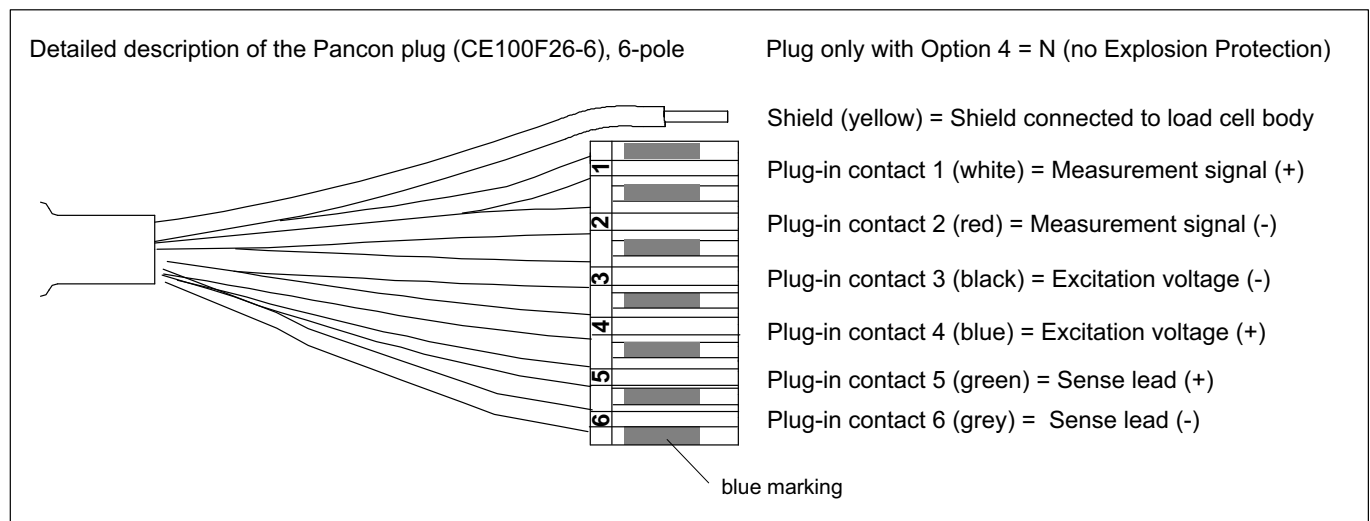


## Mounting hints



## Wiring code

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



## Ordering codes

### PW22C... (aluminum)

Type	PW12C
Accuracy class	C3-MR (OIML) (Multi Range)
Comments	Cable length 3 m (6-wire)

Maximum capacity [kg]	Ordering number
6	1-PW22C3/6KG-1
10	1-PW22C3/10KG-1
20	1-PW22C3/20KG-1
30	1-PW22C3/30KG-1
50	1-PW22C3/50KG-1
90	1-PW22C3/90KG-1

### K-PW22-... (aluminum), optional versions

Ordering number
<b>K-PW22</b>

Code	Option 1: Mechanical version
<b>0</b>	Without protection housing
<b>1</b>	With protection housing

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

Code	Option 3: Nominal (rated) load
<b>6</b>	6 kg
<b>10</b>	10 kg
<b>20</b>	20 kg
<b>30</b>	30 kg

Code	Option 4: Explosion protection
<b>N</b>	No explosion protection
<b>A11/21</b>	IECEX+ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIIC T125°C Db*
<b>A12/22</b>	IECEX+ATEX Zone 2/22 not intrinsically safe II 3G Ex ec IIC T6/T4 Gc, II 3D Ex tc IIIC T125°C Dc*

Code	Option 5: Cable length
<b>1.5</b>	1.5 m
<b>3</b>	3 m (standard)
<b>6</b>	6 m
<b>12</b>	12 m

Code	Option 6: Other
<b>N</b>	Without

<b>K-PW22</b>	-	-	<b>M</b>	<b>R</b>	-	-	-	-	-	-	-	-	-	-	-	<b>N</b>
---------------	---	---	----------	----------	---	---	---	---	---	---	---	---	---	---	---	----------

\* Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEX BVS 13.0109 X

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

**Hottinger Baldwin Messtechnik GmbH**  
Im Tiefen See 45 · 64293 Darmstadt · Germany  
Tel. +49 6151 803-0 · Fax +49 6151 803-9100  
Email: [info@hbm.com](mailto:info@hbm.com) · [www.hbm.com](http://www.hbm.com)

**measure and predict with confidence**

