

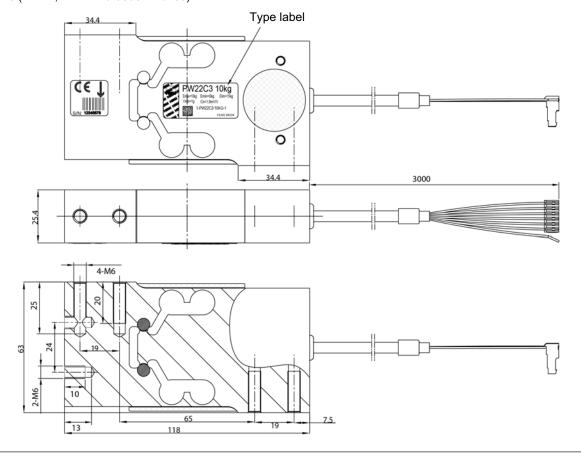
PW22...

Single point load cells

Special features

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

Dimensions (in mm; 1 mm = 0.03937 inches)





Specifications

Туре					PW	22		
Accuracy class 1)				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	Cn			1.9 ±0.1				
Zero signal (without pre load)	- 11	mV/V			0 ±			
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	Υ		12,000	10,000	10,000	15,000	10,000	9,000
Temperature effect on sensitivity ²⁾				l .	I	l .	l .	I.
in the temperature range +20 +40 °C -10 +20 °C	TK _c	% of C _n / 10 K		±0.0175 ±0.0117				
Relative reversibility error ²⁾	d _{hy}			±0.0166				
Linearity deviation ²⁾				±0.0166				
Ratio of minimum dead load output return	DR	% of C _n		±0.0166				
Off-center load error ³⁾			±0.0233					
Input resistance		Ω		300500				
Output resistance	R_0		300500					
Reference excitation voltage		V	5					
Nominal range of excitation voltage	B _U	V		112				
Max. excitation voltage		V	15					
Isolation resistance at 100 V _{DC}	R _{is}	GΩ	> 2					
Nominal (rated) range of ambient temperature			-10 +40 [14 104]					
Operating temperature range		°C [°F]	-10 +50 [14 122]					
Storage temperature range	B _{tl}		-25 +70 [-13 158]					
Limit load at 120 mm eccentricity	EL		150					
Lateral load limit, static		0/ - €	> 300					
Permissible dyn. load; with max. 50 mm eccentricity	F _{srel}	% of E _{max}	70					
Breaking load at 20 mm eccentricity				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 ⁴⁾					IP	67		
Material								
Measuring body					Alum	inum		
Application protection			Silicone rubber					
Cable sheath					P۱	/C		

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.
Loaded with 30 % of the max. capacity at 142 mm eccentricity (acc. to OIML R76).
According to EN 60 529 (IEC 529)

Options

Ex protection versions per IECEx and ATEX

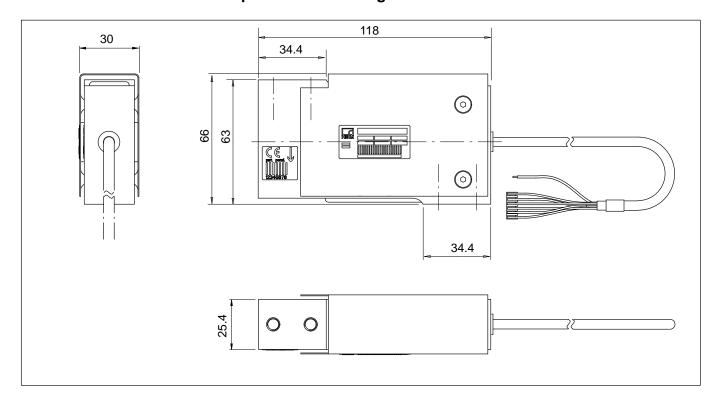
AI1/21 IECEx+ATEX zone 1/21 + FM intrinsically safe

II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIIC T125°C Db*

AI2/22 IECEx+ATEX zone 2/22 not intrinsically safe

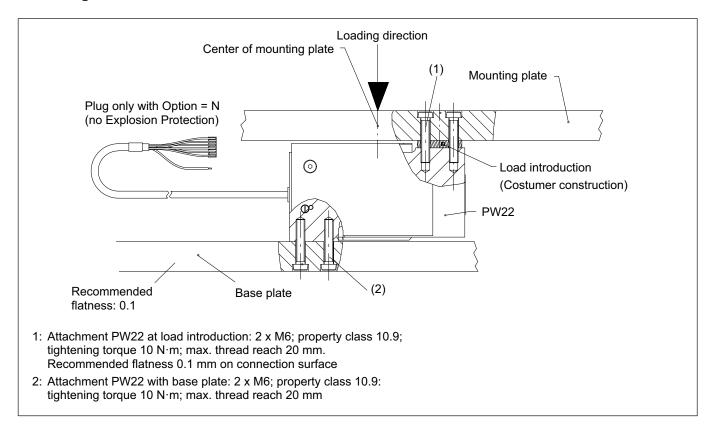
II 3G Ex nA IIC T6/T4 Gc, II 2D Ex tc IIIC T125°C Dc*

Dimensions for version with protection housing



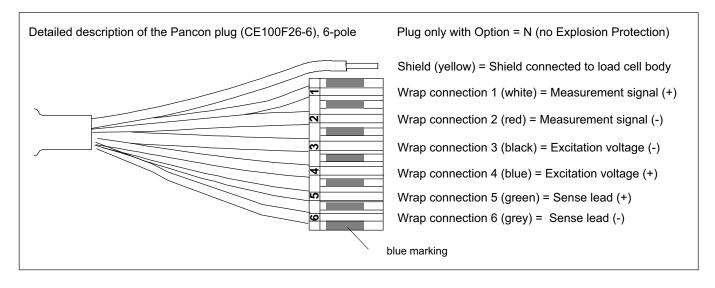
^{*} with EU type examination certificate (BVS13ATEX E 108 X) and IECEx Certificate of Conformity (IECEx BVS 13.0109 X)

Mounting hints



Wiring code

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



Ordering codes

K-PW22

PW22C... (aluminum)

Туре	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

ering number	r								
N22									
Code	Option	Option 1: Mechanical version							
0	Withou	ut protection housing							
1	With pr	protection housing							
	Code	Option 2: Accuracy class							
	MR	C3-MR	C3-MR (OIML) (Multi Range)						
		Code	Option 3	3: Nomina	l (rated) lo	ad			
		6	6 6 kg						
		10							
		20	20 kg	*					
		30	30 kg						
			Code	Option 4	4: Explosio	n protection			
			Al1/21		IECEx+ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIIC T125°C D				
			Al2/22	IECEx+/	IECEx+ATEX Zone 2/22 not intrinsically safe II 3G Ex nA IIC T6/T4 Gc, II 2D Ex tc IIIC T125°C D				
				Code	Option 5	: Cable length			
				1.5	3 3 m (standard)				
				6	6 m				
				12	12 m				
					Code	Option 6: Other			
					N	Without			
		L							