

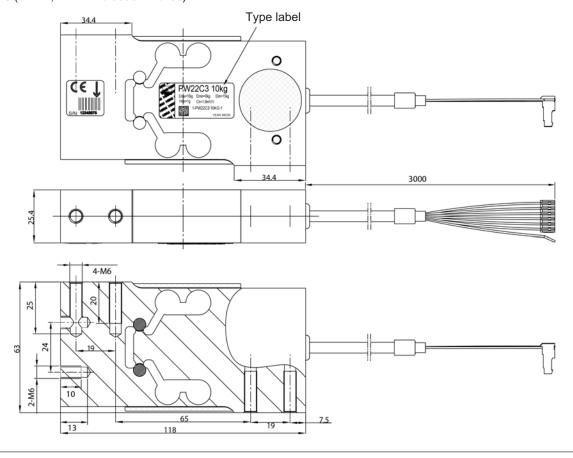
PW22...

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
- Explosion protection, protection housing and other options deliverable

Dimensions (in mm; 1 mm = 0.03937 inches)



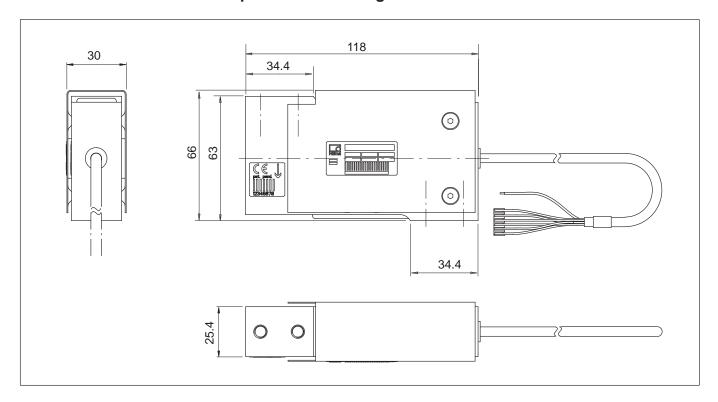


Specifications

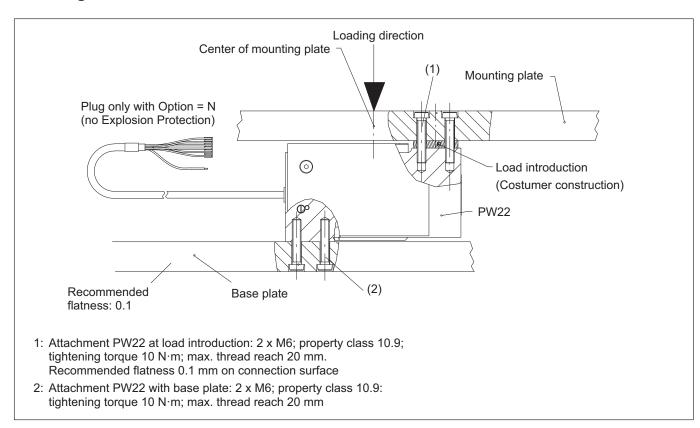
Туре	PW22								
Accuracy class 1)					C3 Multi R	ange (MR)	1		
Maximum number of load cell intervals	n _{LC}		3000						
Maximum capacity	E _{max}	kg	6	10	20	30	50	90	
Minimum LC verification interval	V _{min}	g	0.5	1	2	2	5	10	
Max. platform size		mm	400 x 400					ı	
Sensitivity	Cn		1.9 ±0.1						
Zero signal (without pre load)	- ''	mV/V		0 ±0.1					
Temperature effect on zero balance		% 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⁾									
in the temperature range	TK _c	% of C _n / 10 K	±0.0175						
-10 +20 °C		1010	±0.0117						
Relative reversibility error ²⁾	d _{hy}			±0.0166					
Linearity deviation ²⁾	d _{lin}				±0.0	166			
Ratio of minimum dead load output return		% of C _n	±0.0166						
Off-center load error ³⁾			±0.0233						
Input resistance	R_{LC}	Ω	300500						
Output resistance		\$2	300500						
Reference excitation voltage	U _{ref}	V		5					
Nominal range of excitation voltage		V	112						
Max. excitation voltage		V		15					
Isolation resistance at 100 V _{DC}		GΩ	> 2						
Nominal (rated) range of ambient temperature			-10 +40 [14 104]						
Operating temperature range		°C [°F]	-10 +50 [14 122]						
Storage temperature range			-25 +70 [-13 158]						
Limit load at 120 mm eccentricity	EL		150						
Lateral load limit, static	E _{lq}		> 300						
Service load at max. 120 mm eccentricity	E _U	% of	150						
Breaking load at 20 mm eccentricity	E _d	E _{max}	1,000						
Relative permissible oscillation stress at max. 20 mm eccentricity			70						
Nominal (rated) displacement at E _{max} , approx.		mm	< 0.2						
Resonance frequency, without load, approx.		Hz	280	380	540	660	866	1015	
Weight, approx.		kg			0	.5			
Degree of protection ⁴⁾			IP67						
Material Measuring body Application protection						inum e rubber			
Cable sheath						/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)

Dimensions for version with protection housing

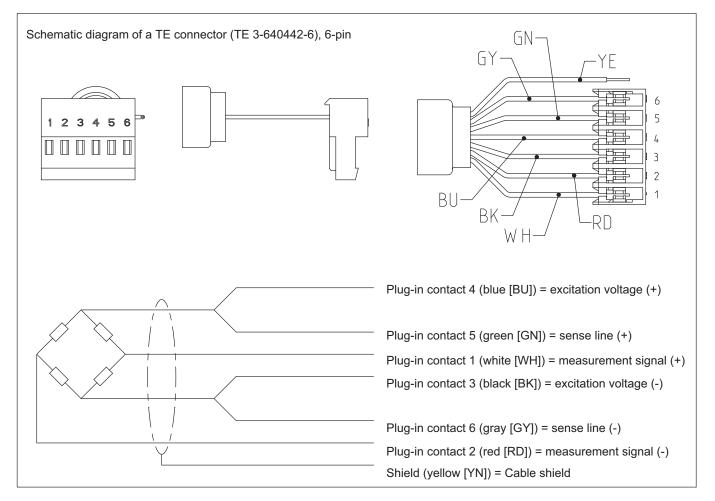


Mounting hints



Wiring code

Connection wirh 6 wire cable, 6 x 0.14 mm²/AWG 26 (selectable cable length: 1.5 m; 3 m; 6 m)



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Ordering codes

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 90	1-PW22C3/50KG-1 1-PW22C3/90KG-1

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

Orde	ering	number	
K-P\	W22		
		Code	Option 1: Mechanical version

Code	Option 1: Mechanical version					
0	Without protection housing					
1	With protection housing					
	Code Option 2: Accuracy class					
	MR	C3-MR (OIML) (Multi Range)				
		Code	Option	3: Nomina	I (rated) load	
		6 6 kg				
		10 10 kg				
	20 20 kg 30 30 kg					
			Code	Option 4	4: Explosion protection	
			N	No expl	osion protection	
			AI1/21		ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb, ia IIIC T125°C Db*	
			Al2/22	IECEx+/	ATEX Zone 2/22 not intrinsically safe II 3G Ex ec IIC T6/T4 Gc, tc IIIC T125°C Dc*	
				Code	Option 5: Cable length	
				1.5	1.5 m	
				3	3 m (standard)	
				6	6 m	
				12	12 m	
					Code Option 6: Other	
					N Without	
		Ļ				
PW22 -	- M R	T-I T	-		- - N	
PW22 -	- M R	<u> </u>	-			

^{*} Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEx BVS 13.0109 X

