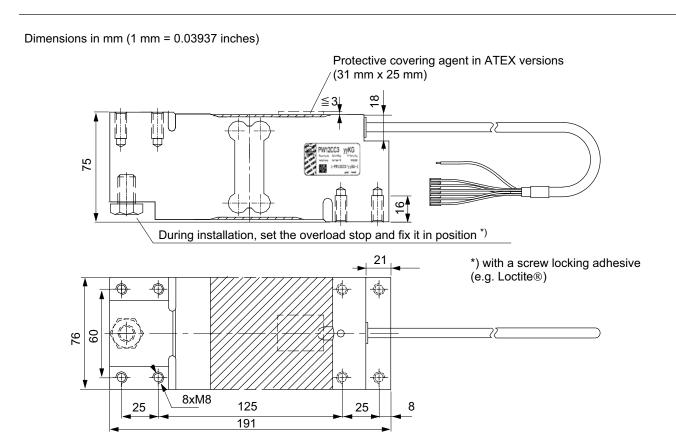


PW12C...

Single point load cells

Special features

- Maximum capacities: 50 kg ... 750 kg
- Aluminum
- High ratio of minimum verification interval Y
- Off-center load compensation
- Complies with EMC directives
- Six-wire circuit
- Explosion protection and other options also available



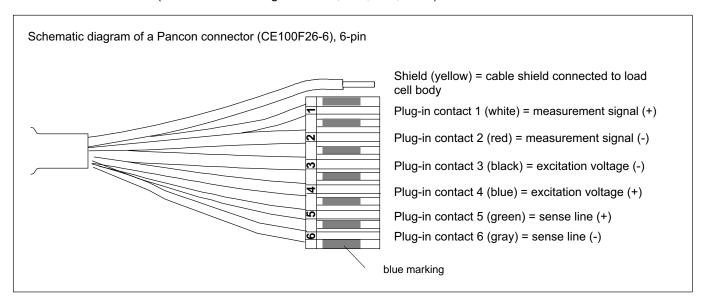


Туре				PW12C									
Accuracy class ¹⁾			C3 Multi Range (MR)										
Number of load cell verification intervals (n _{LC})	n_{LC}						30	00					
Maximum capacity ²⁾	E _{max}	kg	50	75	100	150	200	250	300	500	635	750	
Minimum load cell verification interval, accuracy class C3MR	V _{min}	g	5	5	10	10	20	20	20	50	50	50	
Temperature coefficient of zero signal, accuracy class C3MR	TC ₀	% of C _n / 10 K	±0.0140	±0.0093	±0.0140	€600.0∓	±0.0140	±0.0112	€600.0∓	±0.0140	±0.0110	€600.0∓	
Ratio of minimum verification interval Y		Y	10,000	15,000	10,000	15,000	10,000	12,500	15,000	10,000	12,700	15,000	
Maximum platform size		mm					800 :	x 800					
Nominal sensitivity	C _n	mV/V	2.0 ± 0.2 (Option 6: A = 2mV/V $\pm 0.1\%$)										
Zero signal		mv/v					0 ±	0.1					
Temperature coefficient of sensitivity ³⁾ Temperature range: +20 +40 °C -10 +20 °C	TC _c	% of C _n / 10K	±0.0175 ±0.0117										
Relative reversibility error ³⁾	d _{hy}			±0.0166									
Non-linearity ³⁾	d _{lin}	% of C _n	± 0.0166										
Minimum dead load output return (DR)			±0.0166										
Off-center load error ⁴⁾			±0.0233										
Input resistance	R _{LC}	0	Ω		300 500								
Output resistance			300 500 (Option 6: A = 410 Ω ± 0.2 Ω)										
Reference excitation voltage	U _{ref}							5					
Nominal (rated) range of the excitation voltage	B _U	V	1 12		. 12								
Maximum excitation voltage B _U			15										
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	> 2										
Nominal (rated) range of the ambient temperature			-10 +40										
Operating temperature range	B _{tu}	°C	-10 +50										
Storage temperature range	B _{tl}						-25	+70					
Limit load at max. 100 mm eccentricity	EL	0/ 6	150										
Limit lateral loading, static		% of E _{max}	300										
Breaking load	E _d Lmax		300										
Rated displacement at E _{max} , approx.	s _{nom}	mm					< (0.5					
Weight, approx.	m	kg					2	.4					
Degree of protection ⁵⁾							ĪΡ	67					
Material: Measuring body						-	Alum	inum		-			
Covering agent								e rubbei	•				
Cable sheath							P۱	/C					

As per OIMLR60, with P_{LC} = 0.7
 Maximum eccentric loading as per OIML R76
 If the values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TC_C) are added together, they are within the cumulated error limit specified in OIML R60.
 Off-center load deviation per OIML R76
 As per EN 60 529 (IEC 529)

Cable assignment

6-wire cable connection (available cable lengths: 1.5 m; 3 m; 6 m; 12 m)



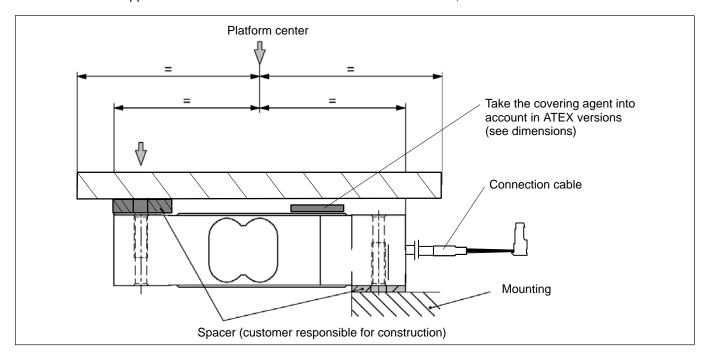
Mounting and load application

The load cells are attached at the mounting holes, the load is applied at the other end. The recommended screws and tightening torques can be found in the table below:

Maximum capacities	Thread	Min. property class	Tightening torque ¹⁾
50500 kg	M8	10.9	35 N⋅m
635 kg, 750 kg	M8	12.9	42 N⋅m

¹⁾ Recommended value for the specified property class. Please comply with the screw manufacturer's instructions with regard to screw dimensions

Load must not be applied to the side where the cable connection is located, as this would cause a force shunt.



Product numbers

PW12C... (aluminum)

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

Maximum capacity [kg]	Ordering number
50	1-PW12CC3/50KG-1
75	1-PW12CC3/75KG-1
100	1-PW12CC3/100KG-1
150	1-PW12CC3/150KG-1
200	1-PW12CC3/200KG-1
250	1-PW12CC3/250KG-1
300	1-PW12CC3/300KG-1
500	1-PW12CC3/500KG-1
635	1-PW12CC3/635KG-1
750	1-PW12CC3/750KG-1

K-PW12C-... (aluminum), optional versions

Orde	ring number
K-PV	V12C

Code	Option	1: Mechai	nical design							
N	-									
	Code Option 2: Accuracy class									
	MR C3-MR (OIML) (Multi Range)									
		Code	Option 3	3: Nomina	l (rated) l	oad				
		50	50 kg		()					
7!			75 kg							
		100	100 kg							
		150	150 kg							
		200	200 kg							
		250	250 kg							
		300	300 kg							
		500	500 kg							
		635 750	635 kg							
		/30	750 kg							
			Code			ion protection				
			N		osion prot					
			AI1/21			ne 1/21+FM, intrinsically safe II2G Ex ia IIC T6/T4 Gb/II2G Ex ia IIIC T125°C E				
			AI2/22	IECEx+/	ne 2/22, not intrinsically safe II3G Ex nA IIC T6/T4 Gc/II3D Ex tc IIIC T125°C D					
				Code	Option	5: Cable length				
				1.5	1.5 m					
				3	3 m (sta	andard)				
				6	6 m					
				12	12 m					
					Code	Option 6: Other				
					N	without				
					Α	$2mV/V \pm 0.1\% / 410 \Omega \pm 0.2 \Omega$				
						(adjusted output, suitable for parallel connection)				

Subject to modifications.

K-PW12C - N

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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