

PW12C...

Single point load cells

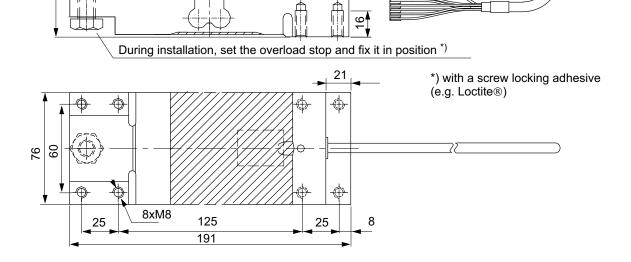
Special features

- 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

Dimensions in mm (1 mm = 0.03937 inches)

75

Protective cover on explosion-proof versions (31 mm x 25 mm)



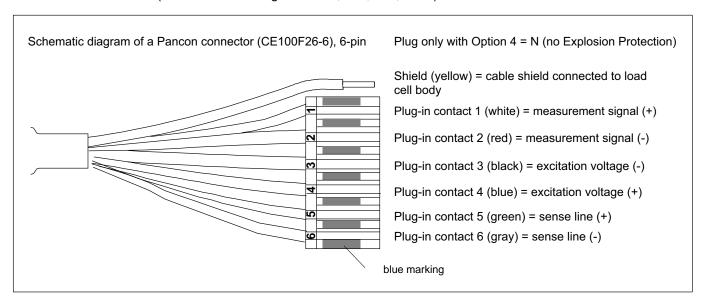


Туре				PW12C								
Accuracy class ¹⁾			C3 Multi Range (MR)									
Number of load cell verification intervals (n _{LC})	n_{LC}		3000									
Maximum capacity ²⁾	E _{max}	kg	50	75	100	150	200	250	300	500	635	750
Minimum load cell verification interval, accuracy class C3MR	V _{min}	g	5	5	10	10	20	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	±0.0093	±0.0140	±0.0112	±0.0093	±0.0140	±0.0110	±0.0093
Ratio of minimum verification interval Y		Υ	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	>//\/		2.0 \pm 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	TCc	% of C _n / 10K	±0.0175									
-10 +20 °C		TOR	±0.0117									
Relative reversibility error ³⁾	d _{hy}						±0.	0166				
Non-linearity ³⁾	d _{lin}		±0.0166									
Minimum dead load output return (DR)		% of C _n	±0.0166									
Off-center load error ⁴⁾				±0.0233								
Input resistance	R_{LC}						300 .	500				
Output resistance	R ₀	Ω	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									
Maximum excitation voltage	B _U						1	5				
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						1:	50				
Limit lateral loading, static	E _{lq}	% of E _{max}			300							
Breaking load		⊢max					30	00				
Rated displacement at E _{max} , approx.	s _{nom}	mm					< (0.5				
Weight, approx.	m	kg					2	.4				
Degree of protection ⁵⁾							ΙP	67				
Material: Measuring body							Alum	inum				
Covering agent							Silicone	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)



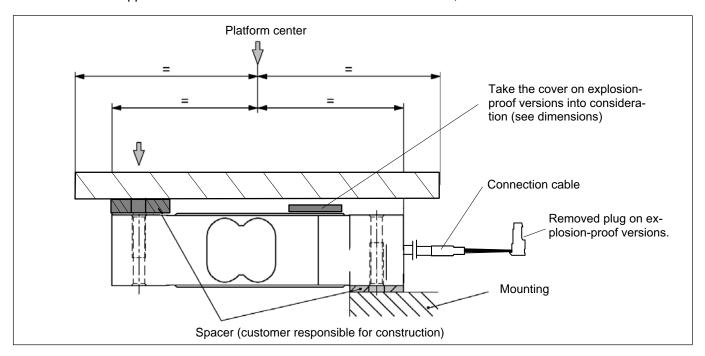
Mounting and load application

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

Orderi	ring number
K-PW	V12C

Code	Option	1: Mechan	nical desig	n	
N	-				
	Code	Option 2	2: Accurac	y class	
	MR		(OIML) (N	-	ie)
		Code	Ontion	2. Nomina	al (rated) load
		50	50 kg	o. INOITIIITA	ii (rateu) ioau
		75	75 kg		
		100	100 kg		
		150	150 kg		
		200	200 kg		
		250	250 kg		
		300	300 kg		
		500	500 kg		
		635	635 kg		
		750	750 kg		
			Code	Option 4	4: Explosion protection
			N	No expl	losion protection
			Al1/21		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+	ATEX Zone 2/22, not intrinsically safe II 3G Ex ec IIC T6/T4 Gc/II 3D Ex tc IIIC T125°C D
				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
					A 2mV/V ±0.1% / 410 Ω ±0.2 Ω
					(adjusted output, suitable for parallel connection)

^{*} 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.

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