# PW10A...



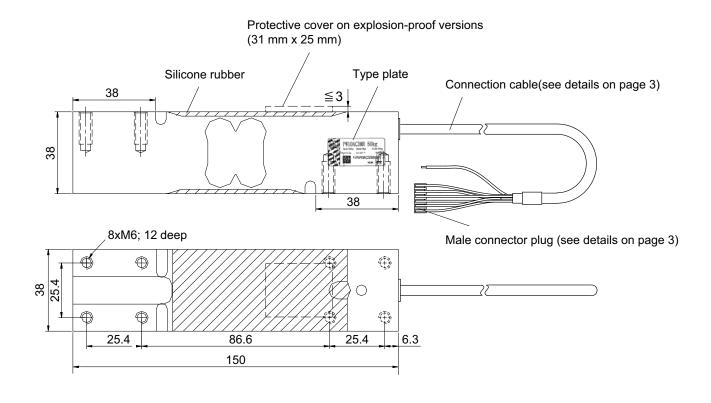




- Maximum capacities: 50 kg ... 300 kg
- Aluminum
- High ratio of minimum verification interval Y
- Compensated off-center load error
- Complies with EMC directives
- Shielded connection cable
- 6-wire configuration
- Explosion protection and other options also available

Free Control C

Dimensions (in mm; 1 mm = 0.03937 inches)





# **Specifications**

Туре					PW1	0A		
Accuracy class 1)				C3 Multi Range (MR)				
Number of load cell verification intervals (n <sub>LC</sub> )					30	00		
Maximum capacity <sup>2)</sup>	E <sub>max</sub>	kg	50	100	150	200	250	300
Minimum load cell verification interval								
Accuracy class C3MR	V <sub>min</sub>	g	5	10	10	20	20	20
Temperature coefficient of zero signal			9	9	33	9	2	33
Accuracy class C3MR	TC <sub>0</sub>	% of C <sub>n</sub> /10 K	± 0.0140	± 0.0140	± 0.0093	± 0.0140	±0.0112	±0.0093
		C <sub>n</sub> /10 K	0 #	0 #	0 #	0 #	0 #	0 <del>+</del>
Ratio of minimum verification interval Y	Y		10,	000	15,000	10,000	12,500	15,000
Maximum platform size		mm			600 >	¢ 500	I	
Rated output (nominal)	C <sub>n</sub>			2.0 ± 0.2	(Option 6:	A = 2 mV/\	′ ±0.1 %)	
Zero signal		mV/V			0 ±	0.1		
Temperature coefficient of sensitivity 3)								
Temperature range +20 +40 °C	TCS	% of C <sub>n</sub> /10 K			±0.0	0175		
-10 +20 °C		Off/ 10 10			±0.0	0117		
Relative reversibility error <sup>3)</sup>	d <sub>hy</sub>				±0.0	0166		
Non-linearity <sup>3)</sup>	d <sub>lin</sub>	% of C <sub>n</sub>			±0.0	0166		
Minimum dead load output return	DR	/0 OI On			±0.0	0166		
Off-center load error <sup>4)</sup>					±0.0	0233		
Input resistance	R <sub>LC</sub>	Ω			300 .	500		
Output resistance	R <sub>0</sub>	32		300 50	0 (Option 6	: A = 359 <u>C</u>	$2 \pm 0.2 \Omega$ )	
Reference excitation voltage	U <sub>ref</sub>				Ę	5		
Nominal (rated) range of the excitation voltage	B <sub>U</sub>	V			1	. 12		
Maximum excitation voltage					1	5		
Insulation resistance	R <sub>is</sub> at 100 V <sub>DC</sub>	GΩ			>	2		
Nominal (rated) range of the ambient temperature	B <sub>T</sub>				-10	. +40		
Operating temperature range	B <sub>tu</sub>	°C			-10	. +50		
Storage temperature range	B <sub>tl</sub>				<b>-</b> 25	. +70		
Limit load	EL	% of			15	50		
at max. eccentricity		E <sub>max</sub> mm			14	50		
Limit lateral loading, static	E <sub>lq</sub>	%				00		
Breaking load	E <sub>d</sub>	of E <sub>max</sub>				00		
Rated displacement at E <sub>max</sub> , approx.	s <sub>nom</sub>	mm				).5		
Weight, approx.	m	kg				.6		
Degree of protection <sup>5)</sup>		9				67		
Material: Measuring body					Alum			
Application protection					Silicone			
Cable sheath						/C		

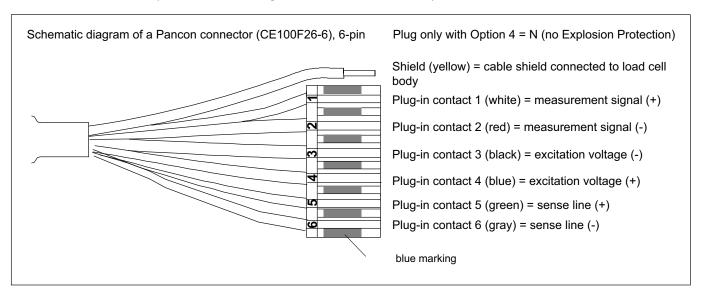
 <sup>1)</sup> As per OIMLR60, with P<sub>LC</sub> = 0.7
 2) Maximum eccentric loading as per OIML R76

<sup>3)</sup> If the values for non-linearity (d<sub>lin</sub>), relative reversibility error (d<sub>hy</sub>) and temperature coefficient of sensitivity (TC<sub>S</sub>) are added together, they are within the cumulated error limit specified in OIML R60.

<sup>4)</sup> Off-center load deviation per OIML R76. 5) 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)



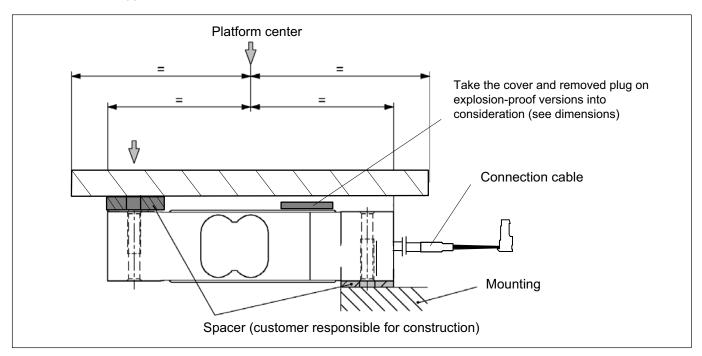
## Mounting and load application

The load cells are firmly screwed in to 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 <sup>1)</sup>
50300 kg	M6	10.9	14 N·m

<sup>1)</sup> 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**

### PW10A... (aluminum)

Туре	PW10A
Accuracy class	C3-MR (OIML) (Multi Range)
Comment	Cable length 3 m (6-wire)

Maximum capacity	Ordering number
50 kg	1-PW10AC3/50KG-1
100 kg	1-PW10AC3/100KG-1
150 kg	1-PW10AC3/150KG-1
200 kg	1-PW10AC3/200KG-1
250 kg	1-PW10AC3/250KG-1
300 kg	1-PW10AC3/300KG-1

#### K-PW10A... (aluminum), optional version

ing number	•							
10A								
Code	Option 1: Mechanical design							
N	-							
	Code	Ontion	2. Accurac	v class				
	MR	Option 2: Accuracy class  C3-MR (OIML) (Multi Range)						
		Code		3: Maximu	т сарасі	ity		
		50	50 kg					
		100	100 kg					
			150   150 kg					
		200	200 kg					
		300	<u> </u>					
	30							
			Code			on protection		
			N	<u> </u>	osion pro			
			AI1/21		ECEx+ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb/II 2D Ex ia IIIC T125°C E			
			Al2/22	IECEx+A	ATEX Zon	e 2/22, not intrinsically safe II 3G Ex ec IIC T6/T4 Gc/II 3D Ex tc IIIC T125°C I		
				Code	Option	5: Cable length		
				1.5	1.5 m			
				3	3 m (sta	andard)		
				6	6 m			
12				12	12 m			
					Code	Option 6: Other		
					N	Without		
					Α	$2$ mV/V $\pm 0.1\%$ / $359$ Ω $\pm 0.3$ Ω [only with option $4 = 1$ ]		
(adjusted output, suital					(adjusted output, suitable for parallel connection)			

<sup>\*</sup> Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEx BVS 13.0109 X

Not all codes can be combined with one another. Take note of the conditions in square brackets!

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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K-PW10A

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