

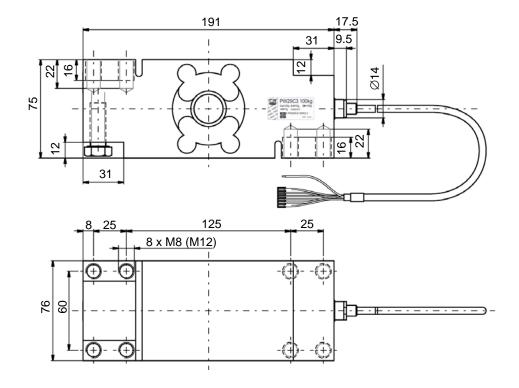
PW29...

Single point load cell

Special features

- Nominal load 100 kg ... 1,000 kg
- Stainless steel
- Hermetically encapsulated (IP68; IP69K)
- Platform sizes 800 x 800 mm
- High ratio of minimum verification interval Y
- Different cable lengths and other options deliverable

Dimensions in mm (1 mm = 0.03937 inches)





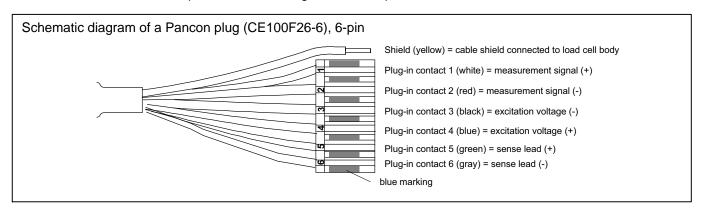
Specifications

Туре					PW29		
Accuracy class 1)			C3 Multi Range (MR)				
Number of load cell verification intervals	n _{LC}				3000		
Maximum capacity	E _{max}	kg	100	250	500	750	1000
Minimum load cell verification interval	v _{min}	g	10	20	50	100	100
Ratio of minimum verification interval	Υ		10,000	12,500	10,000	7,500	10,000
Temperature coefficient of the zero signal per 10 K	TK ₀	% of C _n	±0.0140	±0.0112	±0.0140	±0.0186	±0.0140
Maximum platform size		mm	800 x 800				
Nominal (rated) sensitivity	C _n	mV/V	2.0 ±0.2				
Zero signal error					± 0.1		
Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range	TV	% of C _n					
+20 to +40 °C	TK _C	% 01 C _n	±0.0175				
-10 to +20 °C					±0.0117		
Non-linearity ²⁾	d _{lin}		±0.0166 ±0.0166				
Relative reversibility error ²⁾	d _{hy}						
Minimum dead load output return	MDLOR		± 0.0166				
Off-center load error ³⁾		ppm	≤233				
Input resistance	R _{LC}	Ω	380 ±15				
Output resistance	R ₀		300 500				
Reference excitation voltage	U _{ref}	V	5				
Nominal (rated) range of the excitation voltage	B _U		1 to 12				
Maximum excitation voltage			15				
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	> 2				
Nominal (rated) temperature range	B _T	°C	-10 to +40 -10 to +50				
Operating temperature range	B _{tu}						
Storage temperature range	B _{tl}	% of	-25 to +70				
Limit load at max. 100 mm eccentricity	EL	E _{max}	150 300 300				
Limit lateral loading, static	E _{lq}						
Breaking load	E _d						
Nominal (rated) displacement ⁴⁾	S _{nom}	mm	< 0.2	< 0.2	< 0.25	< 0.25	< 0.3
Displacement at 1/3 · E _{max} and 283 mm eccentricity	S _{exz}		< 0.1	< 0.15	< 0.2	< 0.25	< 0.3
Weight, approx.	m	kg	6.3				
Degree of protection ⁷⁾			IP68 (test conditions 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner))5)				
Cable length (standard)		m	3				
Material: Measuring body, cable entry Cable sheath Cover			Steel 1.4545 ⁶⁾ PVC Steel 1.6908				

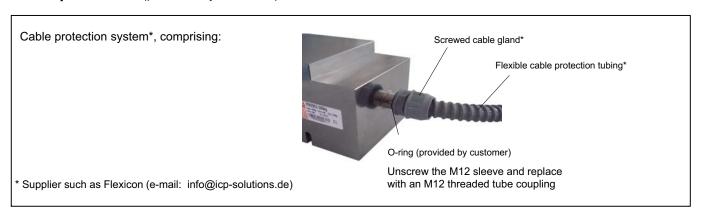
As per OIML R60, with P_{LC} = 0.7
 The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (*TK*_C) are recommended values. The sum of these values is within the cumulated error limit according to OIML R60
 As per OIML R76
 Loading with E_{max} and center of gravity in center of load cell
 Based on DIN 40050, Part 9 specifications, for road vehicles
 As per EN 10088-1
 As per EN 60529 (IEC 529)

Cable assignment

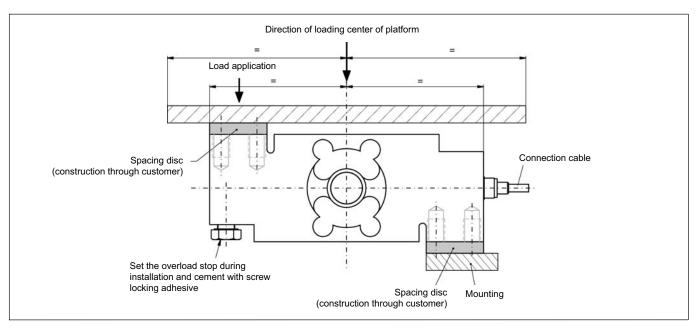
Connection with 6-wire cable (choice of cable lengths: 3 m, 6 m)



Cable protection (provided by customer)



Mounting instructions



Maximum capacity	Socket head cap screw	Maximum tightening torque		
100 kg 250 kg	M8 10.9	35 N⋅m		
500 kg 1000 kg	M12 10.9	110 N·m		

Product numbers (overview)

PW29... (stainless steel, hermetically sealed)

Туре	PW29
Accuracy class	C3-MR (OIML)c
Comments	Cable length 3 m (six-wire configuration)
Maximum capacity	Order number
100 kg	1-PW29C3/100KG-1
250 kg	1-PW29C3/250KG-1
500 kg	1-PW29C3/500KG-1
750 kg	1-PW29C3/750KG-1
1000 kg	1-PW29C3/1T-1