

DATA SHEET

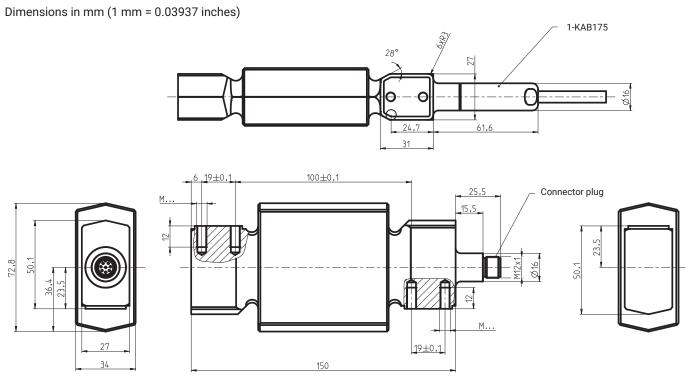
PW37P... "Hygienic design" single-point load cell

SPECIAL FEATURES

- · Maximum capacities 50 kg, 100 kg, 200 kg
- Stainless steel
- · High ratio of minimum verification interval Y
- EHEDG-certified
- Easy to clean
- · "Hygienic design" M12 connection cable



DIMENSIONS



Maximum capacity 50 kg, 100 kg M6 Maximum capacity 200 kg M8

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Туре			PW37P			
Accuracy class ¹⁾			C3 Multi Range (MR)			
Number of load cell verification intervals	n _{LC}		3000			
Maximum capacity	E _{max}	kg	50	100	200	
Minimum load cell verification interval for PW37P	V _{min}	g	5	10	20	
Maximum load cell verification interval for PW37P	Υ		10,000			
Temperature coefficient of the zero signal per 10 K for PW37P	TC ₀	% of C _n	±0.0140			
Minimum load cell verification interval for PW37PY	v _{min}	g	2	5	10	
Maximum load cell verification interval for PW37PY	Υ		25,000 20,000			
Temperature coefficient of the zero signal per 10 K for PW37PY	TC ₀	% of C _n	±0.0056	±0.0070	±0.0070	
Maximum platform size		mm		600 x 600		
Rated output (nominal)	C _n	\//\/	2.0 ±0.2			
Zero signal (without initial load)		mV/V	0 ±0.2			
Temperature coefficient of sensitivity per 10 $\mbox{K}^{2)}$ in the temperature range						
+20 +40°C	TCS	% of C _n	±0.0175			
-10 +20°C			±0.0117			
Relative reversibility error ²⁾	d _{hy}		±0.0166			
Non-linearity ²⁾	d _{lin}	% of C _n	±0.0166			
Minimum dead load output return	MDLOR	∕₀ UI Un		±0.0166		
Off-center load error ³⁾	d _{cr}		±0.0233			
Input resistance	R _{LC}	Ω	380 ±15			
Output resistance	R ₀	22	360 ±10			
Reference excitation voltage	U _{ref}			5		
Nominal (rated) range of the excitation voltage	B _U	V	1 12 15			
Maximum excitation voltage						
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	>2			
Nominal (rated) range of the ambient temperature	B _T		-10 +40			
Operating temperature range	B _{tu}	°C		-20 +70		
Storage temperature range	B _{tl}			-25 +90		
Limit load at 20 mm eccentricity	EL	150				
Service load at centric loading	-		150 150			
Limit lateral loading, static	E _{lq}	% of				
Breaking load at max. 20 mm eccentricity	E _d	E _{max}	>300			
Permissible oscillation stress at max. 20 mm eccentricity	F _{srel}		70			
Resonance frequency, approx.	f _G	Hz	540	630	790	
Rated displacement at E _{max} ⁴⁾	S _{nom}	mm	0.09	0.13	0.17	
Weight, approx.	m	kg	1.2			
Material: measuring body seal			steel 1.4545 ⁶⁾ EPDM			
Equipment protection level ⁷⁾			IP68 (test conditions 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner) ⁵⁾			

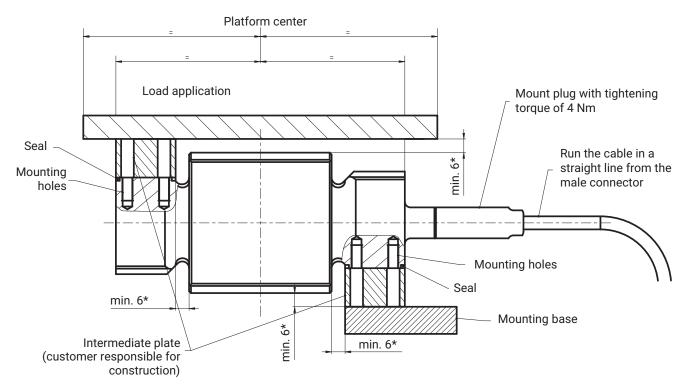
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¹⁾ As per OIML R60, with P_{LC} = 0.7
2) The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TCS) are recommended values. If these values are added together, the total is within the accumulated error limit laid down by 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.

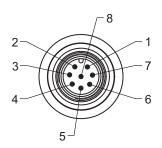
⁶⁾ Per EN 10088-1

⁷⁾ Per DIN EN 60529 (IEC 529)



* For easy cleaning in accordance with the EHEDG design criteria, a minimum distance of 6 mm is recommended.

CONNECTOR PIN ASSIGNMENT



Plug-in contact 1 = measurement signal (+)

Plug-in contact 2 = not in use

Plug-in contact 3 = sense lead (+)

Plug-in contact 4 = not in use

Plug-in contact 5 = sense lead (-)

Plug-in contact 6 = excitation voltage (-)

Plug-in contact 7 = excitation voltage (+)

Plug-in contact 8 = measurement signal (-)

PIN ASSIGNMENT 1-KAB175

Color code	Connection
White	Measurement signal (+)
Red	Measurement signal (-)
Blue	Excitation voltage (+)
Black	Excitation voltage (-)
Green	Sense lead (+)
Gray	Sense lead (-)

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ACCESSORIES

Connection cable	
Connection cable with M12 F male connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 3 m long	1-KAB175-3-1
Connection cable with M12 F male connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 6 m long	1-KAB175-6-1
Connection cable with M12 F male connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 12 m long	1-KAB175-12-1

SPARE PART

1 set of replacement seals, consisting of 2 seals (EPDM), ordering no. E-9278.0014

PRODUCT NUMBERS (OVERVIEW)

Туре	PW37P
Accuracy class	C3-MR (OIML)
Maximum capacity	Ordering number
50 kg	1-PW37PC3/50KG-1
100 kg	1-PW37PC3/100KG-1
200 kg	1-PW37PC3/200KG-1
Туре	PW37PY
50 kg	1-PW37PY/50KG-1
100 kg	1-PW37PY/100KG-1
200 kg	1-PW37PY/200KG-1