

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

1-KAB175 28 5 Ø16. f 61,6 24,7 31 100±0,1 <u>19±0,1</u> Connector plug 25.5 M 15,5 2 23.5 72,8 50.1 Ø16 50,1 12× 23,5 36,4 2 М... 27 19±0.1 34 150

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



Dimensions in mm (1 mm = 0.03937 inches)

Specifications

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	⊂max V _{min}	g	5	100	200	
Maximum load cell verification interval for PW37P	*min Y	9	0	10,000	20	
Temperature coefficient of the zero signal per 10 K for	1			·		
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	Y		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)	Cn	N 10 1	2.0 ±0.2			
Zero signal (without initial load)		mV/V	0 ±0.2			
Temperature coefficient of sensitivity per 10 $K^{(2)}$ in the temperature range						
+20 +40°C	TCS	% of C _n	10.0175			
-10 +20°C			±0.0175 ±0.0117			
Relative reversibility error ²⁾	d _{hy}		±0.0117 ±0.0166			
Non-linearity ²⁾	d _{lin}			±0.0166		
Minimum dead load output return	MDLOR	% of C _n	f C _n ±0.0166 ±0.0233			
Off-center load error ³⁾	d _{cr}					
Input resistance	R _{LC}		380 ±15			
Output resistance	R ₀	Ω	360 ±10			
Reference excitation voltage	U _{ref}		5			
Nominal (rated) range of the excitation voltage	BU	V	1 12			
Maximum excitation voltage	0		15			
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	>2			
Nominal (rated) range of the ambient temperature	BT		-10 +40			
Operating temperature range	B _{tu}	°C	-20 +70			
Storage temperature range	B _{tl}		-25 +90			
Limit load at max. 20 mm eccentricity	EL		150 150			
Service load at max. 100 mm eccentricity						
Limit lateral loading, static	Elg	% of	150 >300 70			
Breaking load at max. 20 mm eccentricity	Ed	E _{max}				
Permissible oscillation stress at max. 20 mm eccentricity	F _{srel}					
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⁾			

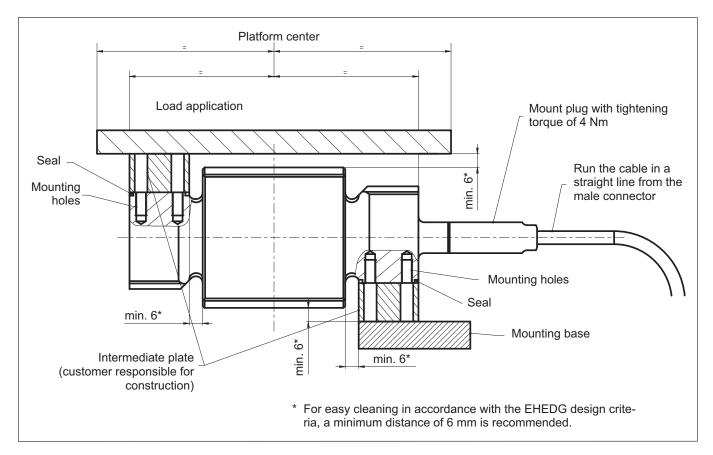
3) As per OIML R76

7) Per DIN EN 60529 (IEC 529)

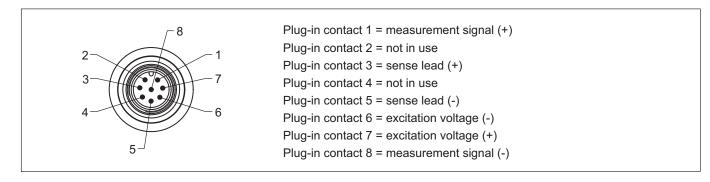
¹⁾ As per OIML R60, with $P_{LC} = 0.7$ ²⁾ The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TCS) are recommended values. If these values are added together, the total is within the accumulated error limit laid down by OIML R60.

⁴⁾ Loading with E_{max} and center of gravity in center of load cell.
5) Based on DIN 40050, Part 9 specifications, for road vehicles.
6) Per EN 10088-1

Installation advice



Connector pin assignment



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 (-)

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

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability. Hottinger Brüel & Kjaer GmbH Im Tiefen See 45 · 64293 Darmstadt · Germany Tel. +49 6151 803-0 · Fax +49 6151 803-9100 Email: info@hbm.com · www.hbm.com



measure and predict with confidence