

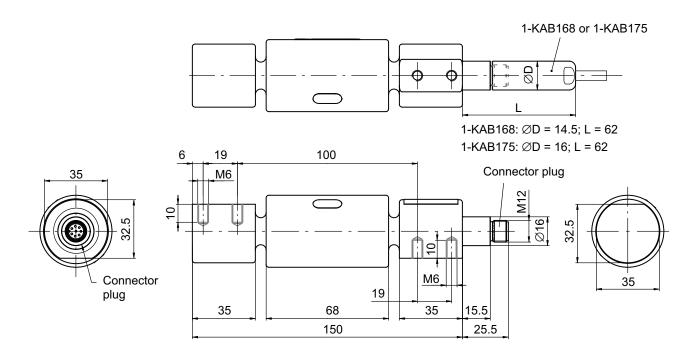
PW25P...

Single point load cell for harsh environments

Special features

- Nominal load 10 kg, 20 kg
- Stainless steel
- High ration of minimum verification interval Y
- Industry Footprint (SP4M)
- Degree of protection IP68; IP69k
- Connection cable and other accessories deliverable

Dimensions in mm (1 mm = 0.03937 inches)



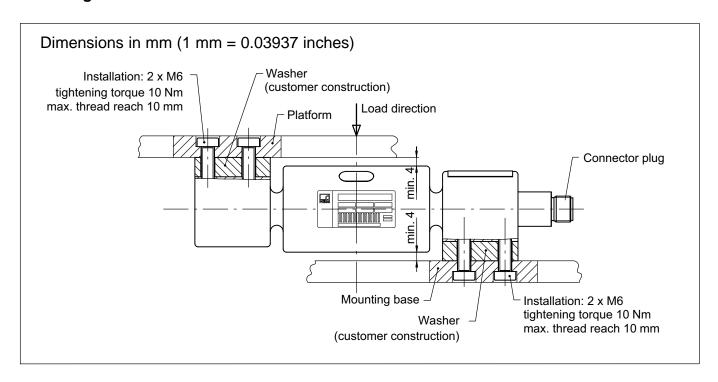


Specifications

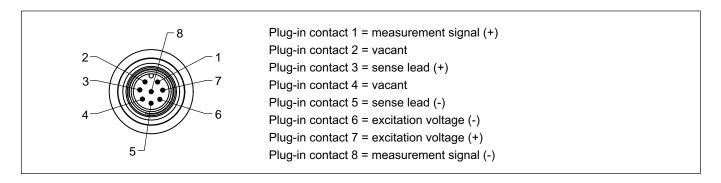
Туре	PW25P				
Accuracy class 1)			C3 Multi Ra	C3 Multi Range (MR)	
Number of load cell verification intervals	n _{LC}		300	00	
Maximum capacity	E _{max}	kg	10	20	
Minimum load cell verification interval	v _{min}	g	1	2	
Ratio of minimum verification interval	Υ		100	00	
Temperature coefficient of the zero signal per 10 K	TK ₀	% of C _n	± 0.0	140	
Maximum platform size		mm	400 x	400	
Nominal (rated) sensitivity	C _n		2.0 ±0.2		
Zero signal error		mV/V	0 ±0.1		
Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range +20 +40°C -10 +20°C	TK _C	% of C _n	±0.0175 ±0.0117		
Non-linearity ²⁾	d _{lin}		± 0.0166		
Relative reversibility error ²⁾	d _{hy}		±0.0166		
Minimum dead load output return	MDLOR		±0.0166		
Off-center load error ³⁾		ppm	≤2		
Input resistance	R _{LC}	Ω	300 500		
Output resistance	R ₀	22	300 500		
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}	$G\Omega$	>	1	
Nominal (rated) ambient temperature range	B _T		-10 +4 0		
Operating temperature range	B_{tu}	°C	-10 +50		
Storage temperature range	B_{tl}	C	-25 +85		
Cleaning temperature			max. 120 for max. 10 minutes		
Limit load at 20 mm eccentricity	EL		1000		
Service load at max. 120 mm eccentricity			150		
Limit lateral loading, static	E _{lq}	% of	200		
Breaking load	E _d	E _{max}	>1500		
Permissible vibrational stress at max. 50 mm eccentricity	F _{rb}		70		
Resonance frequency, approx.	f _G	Hz	210	315	
Nominal (rated) displacement ⁴⁾	s _{nom}	mm	0.19	0.18	
Weight, approx.	m	kg	0.	8	
Degree of protection ⁷⁾			IP68 (test conditions: 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner) 5)		
Material: measuring body			steel 1.4	1545 ⁶⁾	

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 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.
 As per EN 10088-1
 As per DIN EN 60529 (IEC 529)

Mounting instructions



Connector pin assignment



Product numbers (overview)

PW25P0 (stainless steel, hermetically sealed)

Туре	PW25P		
Accuracy class	C3-MR (OIML) (Multi Range)		
Maximum capacity	Ordering number		
10 kg	1-PW25PC3/10KG-1		
20 kg	1-PW25PC3/20KG-1		

Accessories:



Connection cable	
Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 5 m long	1-KAB168-5
Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 20 m long	1-KAB168-20
Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 3 m long	1-KAB175-3-1
Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 6 m long	1-KAB175-6-1

Pin assignment 1-KAB168

Pin assignment 1-KAB175

Color code	Connection	Color code	Connection
White	Measurement signal (+)	White	Measurement signal (+)
Red	Measurement signal (-)	Red	Measurement signal (-)
Blue	Excitation voltage (+)	Blue	Excitation voltage (+)
Pink	Excitation voltage (-)	Black	Excitation voltage (-)
Green	Sense lead (+)	Green	Sense lead (+)
Gray	Sense lead (-)	Gray	Sense lead (-)
Yellow	Not in use		
Brown	Not in use		

Subject to modifications.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

