PW27A...

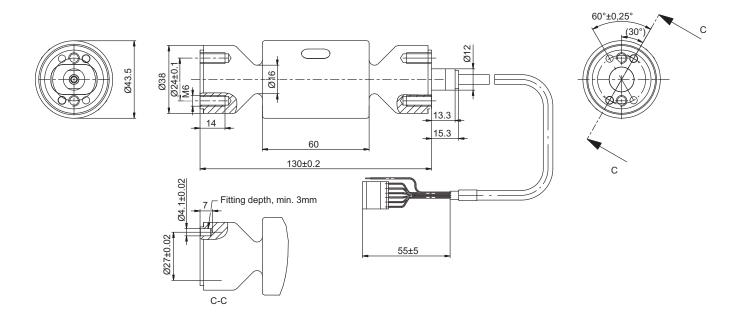


Hygienic design single point load cell

Special features

- Maximum capacities 10 kg, 20 kg
- Easy to clean
- Stainless steel
- EHEDG-certified
- Integrated, encapsulated overload protection
- High ratio of minimum verification interval Y
- Additional accessories available

Dimensions in mm





Specifications

Туре	PW27A				
Accuracy class ¹⁾	C3 Multi Range (MR)				
Maximum number of load cell verification intervals n _{LC}			3,000		
Maximum capacity	E _{max}	kg	10	20	
Minimum load cell verification interval	V _{min}	g	1	2	
Ratio of minimum verification interval Y	Υ		10,000		
Temperature coefficient of zero signal	TC ₀	% of C _n /10 K	±0.0140		
Maximum platform size		mm	400 x 400		
Rated output (nominal)	C _n		2.0 ±0.2		
Zero signal (without initial load)		mV/V	0 ±0.1		
Temperature coefficient of sensitivity ²⁾					
In the range +20 +40°C	TCS	% of C _n /10 K	±0.0175		
In the range -10 +20°C			±0.0117		
Relative reversibility error ²⁾	d _{hy}		±0.0166		
Non-linearity ²⁾	d _{lin}	0, 50	±0.0166		
Minimum dead load output return	DR	% of C _n	±0.0166		
Off-center load error ³⁾			±0.0233		
Input resistance	R _{LC}		300 500		
Output resistance	R _{LC}	Ω	300 500		
Reference excitation voltage	U _{ref}		5		
Nominal (rated) range of the excitation voltage	B _U	V	1	1 12	
Maximum excitation voltage			15		
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	> 1		
Nominal (rated) range of the ambient temperature	B _T		-10 +40		
Operating temperature range	B _T	-20 +70		+70	
Storage temperature range	B _T	°C	-25 +90		
Cleaning temperature		max.+120 for		max. 10 minutes	
Service load at max. 120 mm eccentricity	EU	150		150	
Limit load at 20 mm eccentricity	EL		1000 200		
Limit lateral loading, static	E _{lq}	% of E _{max}			
Breaking load at max. 20 mm eccentricity	E _d	% Of E _{max} > 1000		1000	
Relative permissible oscillation stress at max. 20 mm eccentricity	F _{srel}		70		
Rated displacement at E _{max} , approx.	s _{nom}	mm	0.19	0.18	
Resonance frequency, approx.		Hz	210	315	
Weight, approx.	m	kg		0.8	
Equipment protection level ⁴⁾			IP68 (test conditions 1m water column/100 hours); IP69K (water at high pressure, steam cleaner) ⁵⁾		
Material:					
Measuring body Seal			Stainless steel 1.4545 ⁶⁾ EPDM		
Cable sheath			PUR		

 $^{^{1)}}$ As per OIML R60, with PLC = 0.7

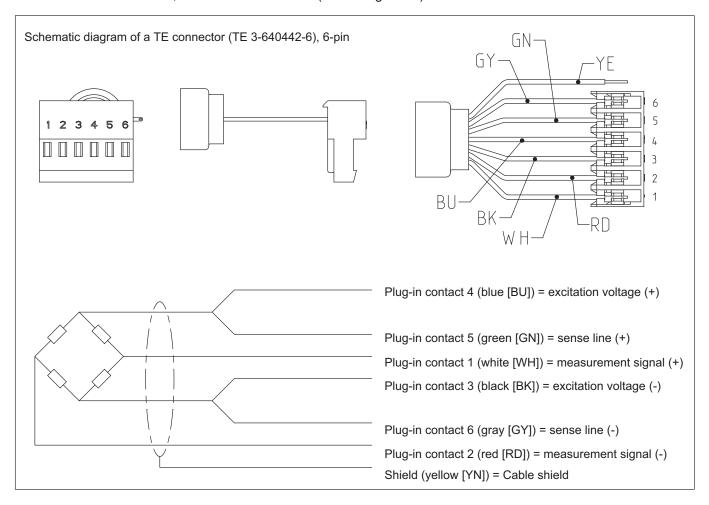
²⁾ The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TC_S) are recommended values. The sum of these values is within the accumulated error limit specified by R60.

³⁾ As per OIML R76
4) Per EN 60 529 (IEC 529)
5) Based on DIN 40050 specifications, Part 9, for road vehicles

⁶⁾ As per EN 10088-1, material list on request

Cable assignment

Connection of 6-wire cable, 6 x 0.14 mm²/AWG 26 (cable length 3 m)



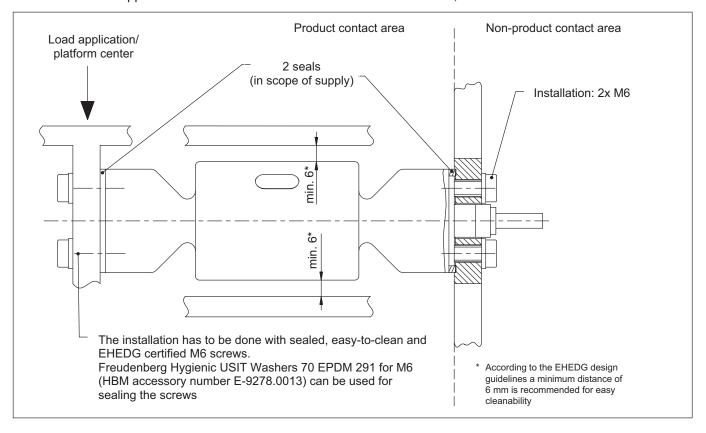
Mounting and load application

The load cells are firmly clamped at the mounting holes, the load is applied at the other end. The scope of supply includes two seals for sealing the gap surfaces on the face against microbiological contamination. The recommended screws and tightening torques can be found in the table below:

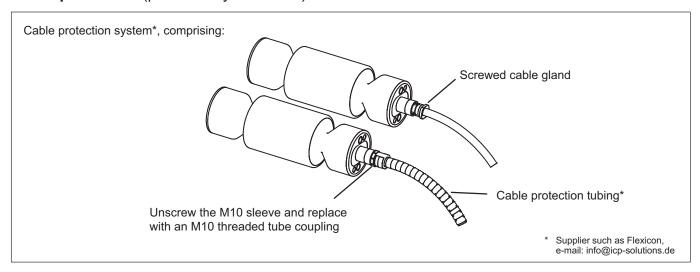
Version	Thread	Max. thread reach	Min. property class	Tightening torque ^{*)}
Standard	M6	14mm	8.8	10 Nm
Rustless	M6	14mm	A2-70 or A4-70	10 Nm

^{*)} 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.



Cable protection (provided by customer)



Even without a cable protection system, standard load cells can achieve IP68/IP69K degree of protection. In applications where the PUR cable of the load cell can be chemically or mechanically attacked or destroyed, extra cable protection can be provided by means of standard cable protection systems.

Product numbers (overview)

Туре	PW27A	
Accuracy class	C3-MR (OIML) (Multi Range)	
Maximum capacity	Ordering number	
10 kg	1-PW27AC3/10kg-1	
20kg	1-PW27AC3/20kg-1	

Spare part

One set of replacement seals, consisting of two seals (EPDM), order no. E-9278.0015-1

