

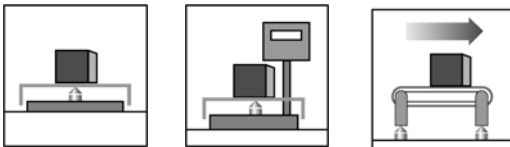
PW27/...

Platform load cell
with aseptic design

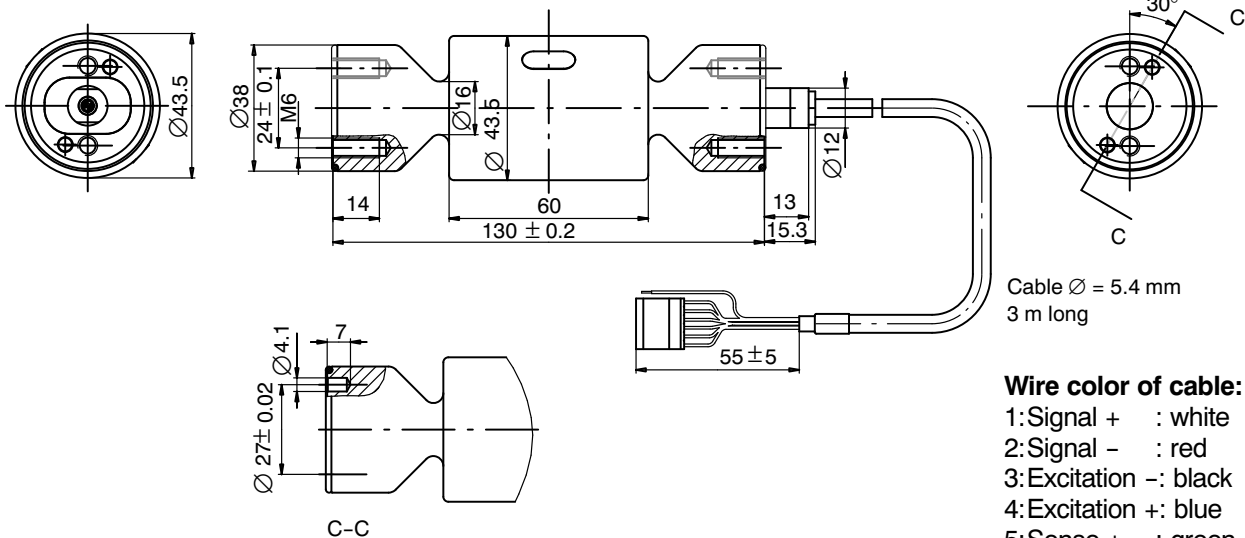


Characteristic features

- Hermetically encapsulated (degree of protection IP68; IP69K)
- Meets criteria for hygienic design of equipment and systems
- EHEDG-certificate available
- Simple to clean
- Special connection cable with antibacterial cladding
- Top reliability
- Integrated, encapsulated overload protection
- Constricted minimum load cell verification interval (v_{min}) for multirange applications
- 6-wire configuration
- Integrated connection for cable protection systems



Dimensions (in mm; 1 mm = 0.03937 inch)



- Wire color of cable:**
- 1: Signal + : white
 - 2: Signal - : red
 - 3: Excitation -: black
 - 4: Excitation +: blue
 - 5: Sense + : green
 - 6: Sense - : grey
 - Shield : yellow (connected to housing)

Mounting:
Cylinder head bolts M6-8.8
Tightening torque: 10 N·m

Specifications

Type		PW27/...	
Accuracy class ¹⁾		C3MR	
Max. number of scale intervals (n _{LC})		3000	
Nominal load (E _{max})	kg	10	20
Minimum scale division (v _{min})	g	1	2
Max. platform size	mm	400 x 400	
Nominal (rated) sensitivity (C _n)	mV/V	2.0 ± 0.2	
Zero signal (without initial load)	mV/V	0 ± 0.1	
Temperature coefficient of sensitivity (TK _C) ²⁾ In the range +20 ... +40°C [+68 ... +104°F] In the range -10 ... +20°C [+14 ... +68°F]	% of C _n / 10K	± 0.0175 ± 0.0117	
Temperature coefficient of zero signal (TK ₀)		± 0.0140	
Relative reversibility error (d _{hy}) ²⁾		± 0.0166	
Non-linearity (d _{lin}) ²⁾		± 0.0166	
Return of initial load signal (DR)		± 0.0166	
Off-center load error ³⁾		± 0.0233	
Input resistance (R _{LC})		380 ± 15	
Output resistance (R _{LC})	Ω	360 ± 10	
Reference excitation voltage (U _{ref})		5	
Nominal excitation voltage range (B _U)	V	1 ... 12	
Max. excitation voltage		15	
Insulation resistance (R _{is}) at 100 V _{DC}	GΩ	> 1	
Nominal ambient temperature range (B _T)		-10 ... +40 [+14 ... +104°F]	
Operating temperature range (B _T)	°C [°F]	-20 ... +70 [-4 ... +160°F]	
Storage temperature range (B _T)		-25 ... +90 [-13 ... +195°F]	
Operational load (EU) at max. 120 mm eccentricity		150	
Limit load (E _L) at 20 mm eccentricity		1000	
Limit lateral loading (E _{lq}), static		200	
Breaking load (E _d)		> 1500	
Relative perm. vibrational stress (F _{srel}) at max. 50 mm eccentricity		70	
Nominal (rated) displacement at E _{max} (s _{nom}), approx.	mm	< 0.18	
Resonance frequency, approx.	Hz	330	
Weight (G), approx.	kg	0.8	
Degree of protection per EN 60 529 (IEC 529)		IP68 (test conditions 1 m water column / 100 hours); IP69K (water at high pressure, steam cleaner) ⁴⁾	
Material: Measuring body Seal Cable sheath		Stainless steel ⁵⁾ NBR 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 (TK_C) are recommended values. The sum of these values is within the cumulative error limits according to R60.

³⁾ As per OIML R76.

⁴⁾ Based on DIN 40050 specifications, Part 9, for road vehicles.

⁵⁾ As per EN 10088-1, material list on request.

Spare parts: 1 set replacement seals, consisting of 2 round gaskets (NBR), size 34x2, Order No. E-9278.0012

Accessories: 1 set seals, consisting of 2 round gaskets (FKM), Order No. E-9278.0011

Modifications reserved.

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