

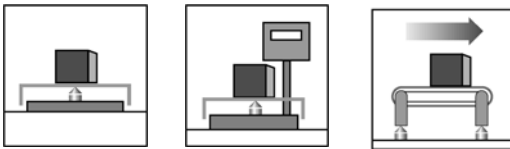
PW27/...

Platform load cell
with aseptic design

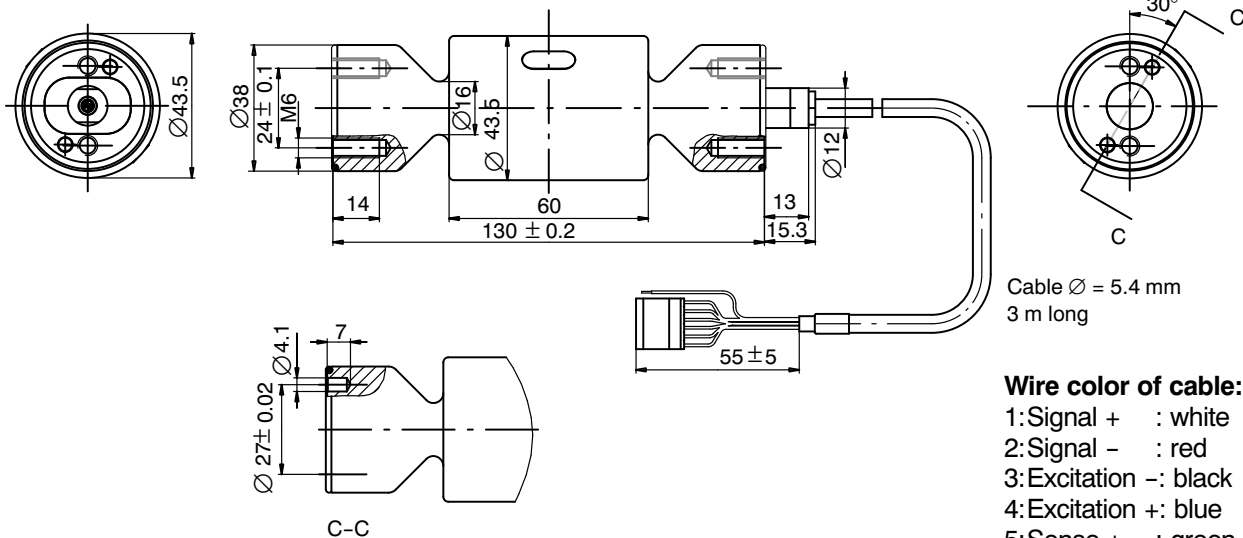


Characteristic features

- 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)



Cable $\varnothing = 5.4$ mm
3 m long

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⁾	% of C_n	± 0.0166
Return of initial load signal (DR)		± 0.0166
Off-center load error ³⁾		± 0.0233
Input resistance (R_{LC})	Ω	380 ± 15
Output resistance (R_{LC})		360 ± 10
Reference excitation voltage (U_{ref})	V	5
Nominal excitation voltage range (B_U)		1 ... 12
Max. excitation voltage		15
Insulation resistance (R_{is}) at 100 V _{DC}	GΩ	> 1
Nominal ambient temperature range (B_T)	°C [°F]	-10 ... +40 [+14 ... +104°F]
Operating temperature range (B_T)		-20 ... +70 [-4 ... +160°F]
Storage temperature range (B_T)		-25 ... +90 [-13 ... +195°F]
Operational load (EU) at max. 120 mm eccentricity	% of E_{max}	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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