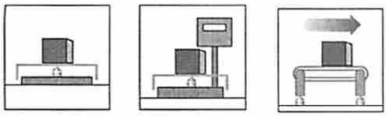
Data Sheet

PW27/...

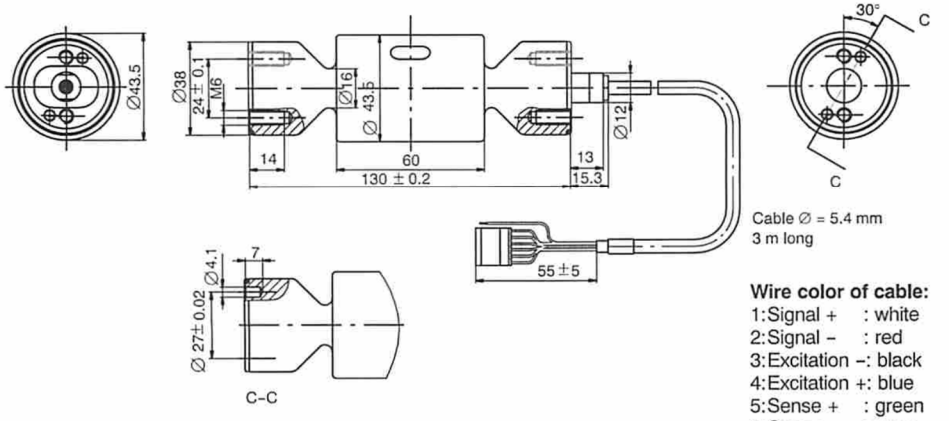
Platform load cell with aseptic design



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)



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

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)

POB 1778 Greer, SC 29652
414 West Poinsett Street Greer, SC 29650
mike@traskinst.com
Ph: 864-848-3993 www.traskinst.com Fax: 864-848-9569

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]	% of C_n / 10K		
In the range +20 ... +40°C [+68 ... +104°F]		±0.0175	
In the range –10 ... +20°C [+14 ... +68°F]		±0.0117	
Temperature coefficient of zero signal (TK_0)		±0.0140	
Relative reversibility error (d_{hy}) [2]	% of C_n	±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})	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		Stainless steel [5]	
Seal		NBR	
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 (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

POB 1778 Greer, SC 29652
414 West Poinsett Street Greer, SC 29650
mike@traskinst.com
Ph: 864-848-3993 www.traskinst.com Fax: 864-848-9569