

PW25C3 - 10/20kg

Célula de carga Single Point



Libracom
Inteligência em Processos Industriais

PW25/...

single point load cell
for rough environment,
“Easy-To-Clean”

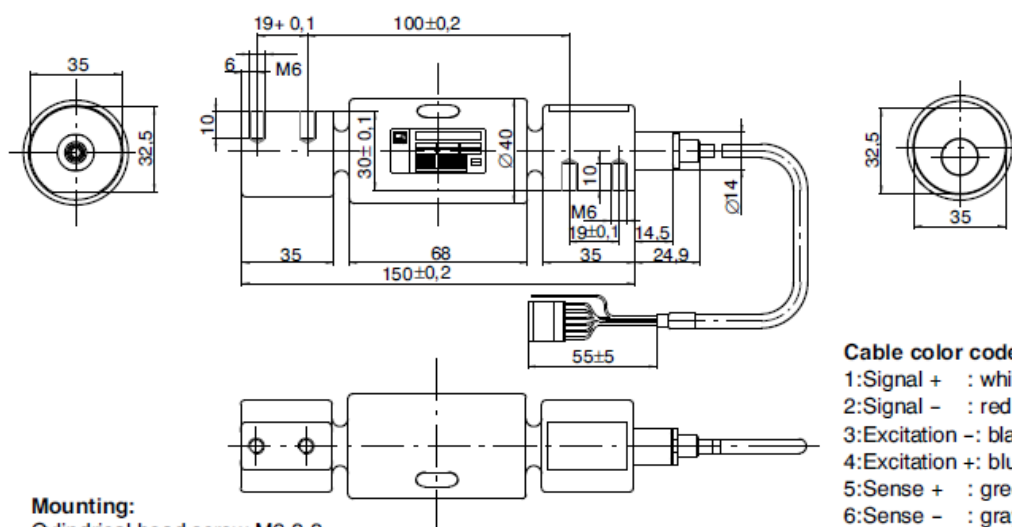


Special features

- Hermetically sealed (IP68; IP69K)
- Highest reliability
- Integrated encapsulated overload stop
- Stainless steel
- Reduced minimum load cell verification interval (v_{min}) for multi range applications
- Six-wire circuit
- Integrated connection for protective cable conduit systems
- Easily adaptable to existing standard mounting situations



Dimensions (in mm; 1 mm = 0.03937 inches)



Mounting:
Cylindrical head screw M6-8.8
Tightening torque: 10 N·m

Cable color code:
1:Signal + : white
2:Signal - : red
3:Excitation -: black
4:Excitation +: blue
5:Sense + : green
6:Sense - : gray
Screen : yellow
(connected to load cell body)

Specifications

Type		PW25/...	
Accuracy class ¹⁾		C3MR	
Maximum number of load cell verification intervals (n_{LC})		3000	
Maximum capacity (E_{max})	kg	10	20
Minimum LC verification interval (v_{min})	g	1	2
Maximum platform size	mm	400 x 400	
Nominal (rated) sensitivity (C_n)		2.0 ± 0.2	
Zero signal (without load)	mV/V	0 ± 0.1	
Temperature coefficient of sensitivity (TK_C) ²⁾			
Temperature range: +20 ... +40°C [+68 ... +104°F] -10 ... +20°C [+14 ... +68°F]	% of C_n / 10 K	± 0.0175 ± 0.0117	
Temperature coefficient of zero signal (TK_0)		± 0.0140	
Hysteresis (d_{hy}) ²⁾		± 0.0166	
Non-linearity (d_{lin}) ²⁾		± 0.0166	
Minimum dead load output return (MDLOR)		± 0.0166	
Off-center load error ³⁾		± 0.0233	
Input resistance (R_{LC})	Ω	380 ± 15	
Output resistance (R_0)		360 ± 10	
Reference excitation voltage (U_{ref})		5	
Nominal (rated) range of the excitation voltage (B_U)	V	1 ... 12	
Maximum excitation voltage		15	
Insulation resistance (R_{is}) at 100 V_{DC}	GΩ	> 1	
Nominal (rated) ambient temperature range (B_T)		-10 ... +40 [+14 ... +104°F]	
Operating temperature range (B_{T1})	°C [°F]	-20 ... +50 [-4 ... +122°F]	
Storage temperature range (B_2)		-25 ... +70 [-13 ... +158°F]	
Service 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 permitted vibrational stress (F_{sre}) at max. 50 mm eccentricity		70	
Nominal (rated) displacement at E_{max} (s_{nom}), approx.	mm	< 0.18	
Natural frequency, approx.	Hz	315	
Weight (G), approx.	kg	0.8	
Degree of protection per EN 60 529 (IEC 529)		IP 68 (test conditions 100 h at 1 m water column); IP69K (water at high pressure, steam jet cleaning) ⁴⁾	
Material: Measuring body		Stainless steel ⁵⁾	
Cable sheath		PUR	

¹⁾ According to OIML R60 with $P_{LC} = 0.7$.

²⁾ The values for non-linearity (d_{lin}), hysteresis (d_{hy}) and temperature coefficient of sensitivity (TK_C) are typical values. The sum of these values is within the cumulative error limits according to OIML R60.

³⁾ According to OIML R76.

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

⁵⁾ According to EN 10088-1, list of materials on request.

