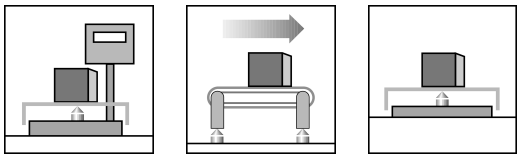
Data Sheet

PW4MC3...

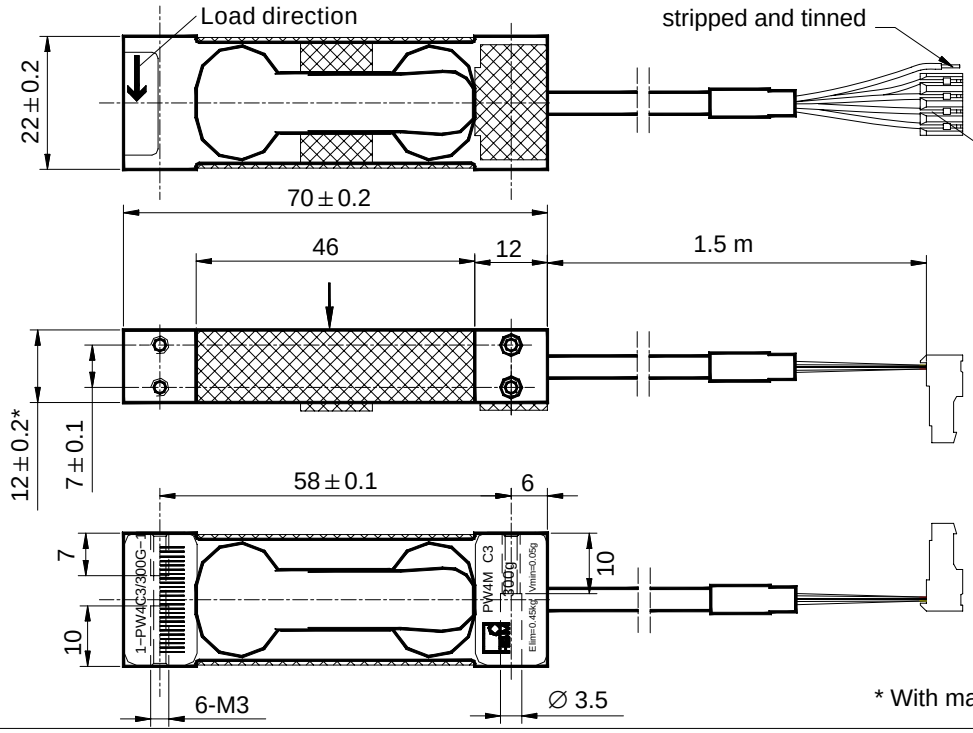
Single point load cells

Special features

- **For determining small masses**
- **Small size**
- **Accuracy class C3 with OIML-R60 test report**
- **Off center load compensated**
- **Degree of protection IP65 according to IEC 529**
- **Shielded connection cable**



Dimensions (in mm; 1 mm= 0.03937 inches)



Plug: CE 100F26-4 (Pancon)
Wiring code (4-core)
Pin1: Excitation (+) . . . . . blue
Pin2: Signal (+) . . . . . white
Pin3: Signal (−) . . . . . red
Pin4: Excitation (−) . . . . . black
Shield . . . . . yellow
(connected to load cell body)

Mounting:
Cylindrical head screws: M3 - 8.8
Tightening torque: 1.3 N·m

* With max. capacities 2 kg and 3 kg: 15 ± 0.2

Specifications

Type		PW4MC3...			
Order-No.		1-PW4C3/300G-1	1-PW4C3/500G-1	1-PW4C3/2KG-1	1-PW4C3/3KG-1
Accuracy class		C3			
Maximum number of load cell intervals (n_{LC})		3000			
Maximum capacity (E_{max})	g/kg	300	500	2	3
Minimum LC verification interval (v_{min})	g	0.05	0.1	0.2	0.5
Temperature effect on zero balance (TK_0)	% of. C_n / 10 K	0.0233	0.0280	0.0140	0.0233
Max. platform size	mm	200 x 200			
Sensitivity (C_n)	mV/V	1.0 ±0.1		2.0 ±0.2	
Zero signal		0 ±0.1			
Temperat. effect on sensitivity (TK_C) [1)] Temperature range: +20 ... +40 °C [68...104 °F] −10 ... +20 °C [14...68 °F]	% of. C_n / 10 K	 ±0.0175 ±0.0117			
Hysteresis error (d_{hy}) [1)]	% of C_n	±0.0150			
Non-linearity (d_{lin}) [1)]		±0.0150			
Minimum dead load output return (DR)		±0.0245			
Off center load error [2)]		±0.0233			
Input resistance (R_{LC})	Ω	380 ±38			
Output resistance (R_0)		380 ±38			
Reference excitation voltage (U_{ref})	V	5			
Nominal range of excitation voltage (B_U)		1 ... 8			
Insulation resistance (R_{is}) at 100 V_{DC}	GΩ	> 2			
Nominal temperature range (B_T)	°C [°F]	−10 ... +40 [+14...+104]			
Operating temperature range (B_{tu})		−10 ... +50 [+14...+122]			
Storage temperature range (B_{tl})		−25 ... +70 [−13...+158]			
Limit load (E_L) *) ***) at max. eccentricity**	% of E_{max} mm	150 100			
Lateral load limit (E_{lq}), static	% of E_{max}	200			
Breaking load (E_d)		> 300			
Deflection at E_{max} (s_{nom}), approx.	mm	< 0.4			
Weight, without cable (G), approx.	kg	0.07			
Degree of protection according to IEC529		IP65			
Material: Measuring element Coating Cable sheath		Aluminum Silicone rubber PVC			

1) The data for Non-linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values. The sum of these data meets the requirements according to OIML R60.

2) According to OIML R76

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45, D-64293 Darmstadt, Germany
Tel.: +49 6151 803-0 Fax: +49 6151 803 9100
Email: support@hbm.com Internet: www.hbm.com