

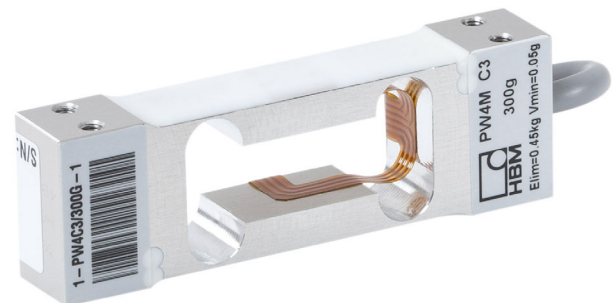
DATA SHEET



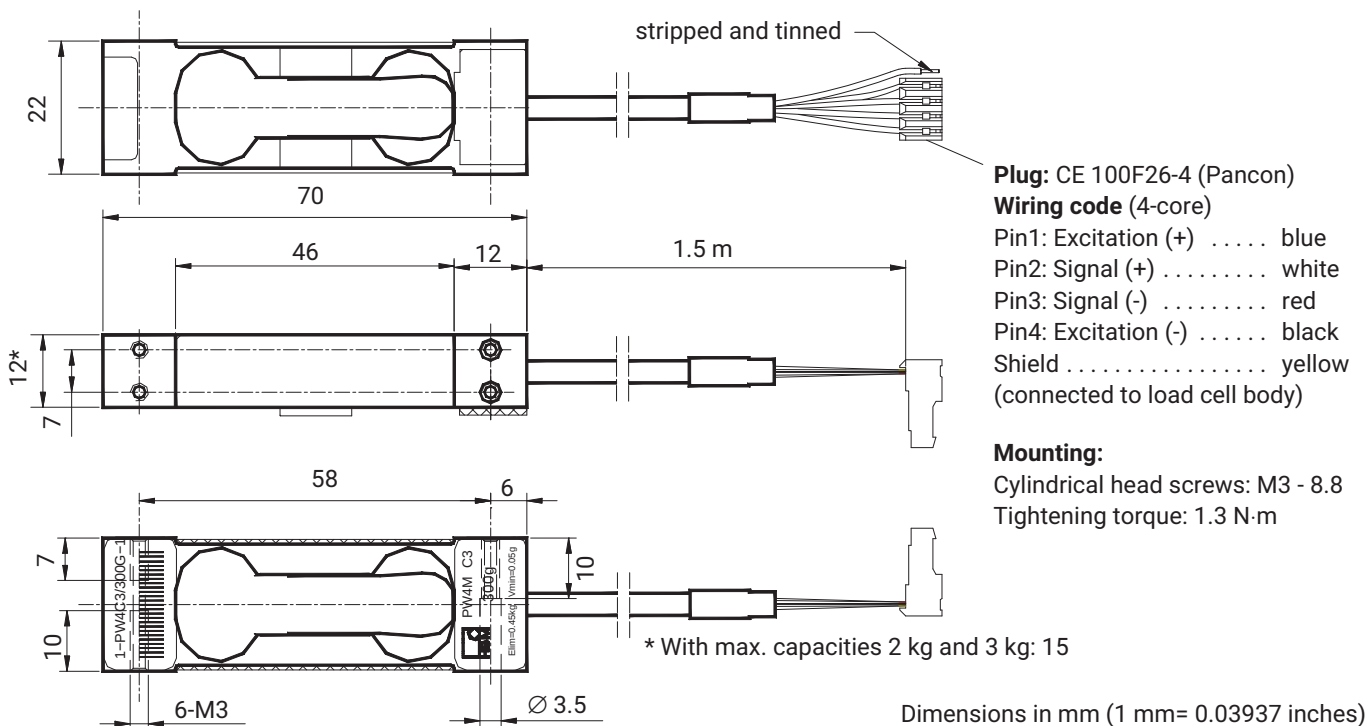
PW4M... Single point load cells

SPECIAL FEATURES

- For determining small masses (0.3 kg ... 3 kg)
- Aluminum
- Off center load compensated
- Shielded connection cable



DIMENSIONS



SPECIFICATIONS

Type			PW4MC3...			
Order-No.			1-PW4C3/ 300G-1	1-PW4C3/ 500G-1	1-PW4C3/ 2KG-1	1-PW4C3/ 3KG-1
Accuracy class ¹⁾			C3			
Maximum number of load cell intervals	n _{LC}		3000			
Maximum capacity ²⁾	E _{max}	kg	0.300	0.500	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
Ratio of minimum verification interval	Y		6000	5000	10000	6000
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			
Temperature effect on sensitivity ³⁾ Temperature range +20 ... +40 °C [68...104 °F] -10 ... +20 °C [14...68 °F]	TK _C	% of. C _n / 10 K	±0.0175 ±0.0117			
Hysteresis error ³⁾	d _{hy}	% of C _n	±0.0150			
Non-linearity ³⁾	d _{lin}		±0.0150			
Minimum dead load output return	DR		±0.0166			
Off center load error ⁴⁾			±0.0233			
Input resistance	R _{LC}	Ω	300 ... 500			
Output resistance	R ₀		300 ... 500			
Reference excitation voltage	U _{ref}	V	5			
Nominal range of excitation voltage	B _U		1 ... 8			
Max. excitation voltage		V	10			
Insulation resistance at 100 V _{DC}	R _{is}	GΩ	> 2			
Resonance frequency (calculated)		Hz	180	251	322	404
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 ⁴⁾	E _L	% of E _{max}	150			
Lateral load limit, static	E _{lq}	% of E _{max}	200			
Breaking load	E _d		> 300			
Deflection at E _{max} , approx.	s _{nom}	mm	< 0.4			
Weight, without cable, approx.	m	kg	0.07			
Degree of protection ⁵⁾			IP65			
Material Measuring body Coating Cable sheath			Aluminum Silicone rubber PVC			

1) In accordance to OIML R60 with P_{LC} = 0.7

2) Max. eccentric load according to OIML R76

3) 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.

4) According to OIML R76

5) According to IEC529

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