

PW4M...

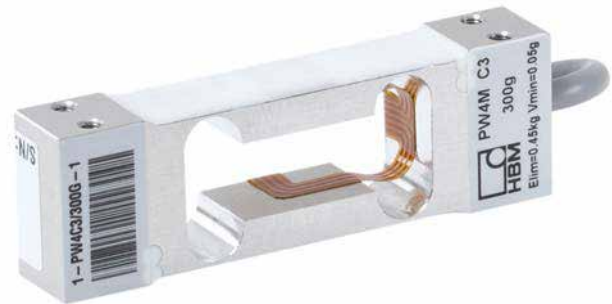
Single point load cells

DATA SHEET

PW4M... Single point load cells

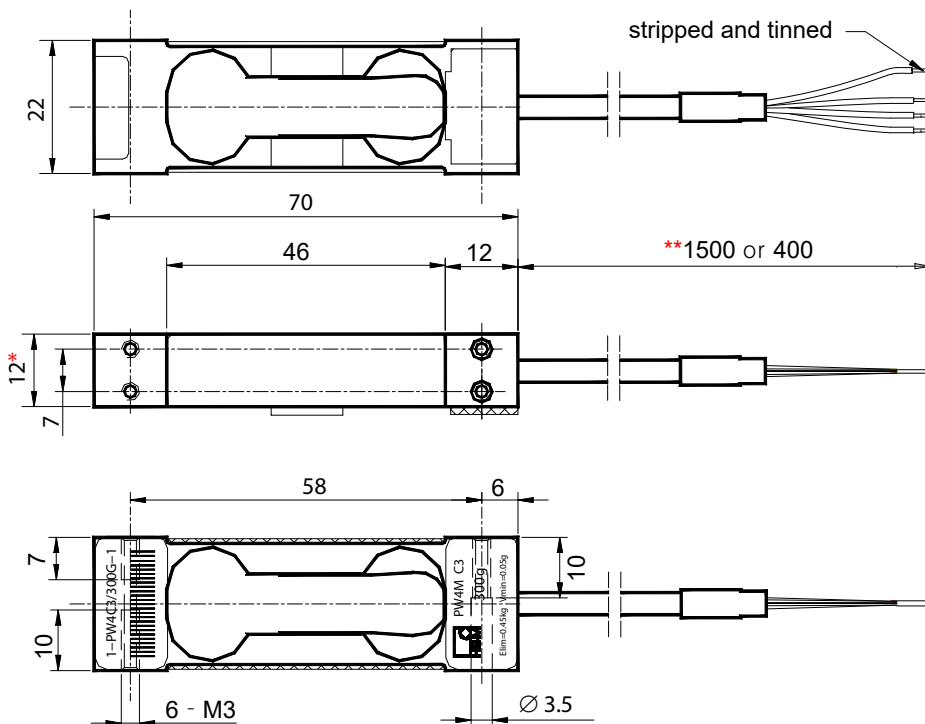
SPECIAL FEATURES

- For determining small masses
(0.3 kg ... 5 kg)
- Aluminum
- Off center load compensated
- Shielded connection cable



DIMENSIONS

Dimensions (in mm; 1 mm= 0.03937 inches)



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/3kg/5kg: 15

**** 300g,500g,2kg,3kg : 출하시 제품에 1-PW4C3로 표기되고 cable 길이 1500mm
1kg,5kg : 출하시 제품에 1-PW4MC3로 표기되고 cable 길이 400mm**

단 주문code는 표시와 관계없이 모두 1-PW4MC3/xxxg-1 or 1-PW4MC3/xxxkg-1로 처리됨

SPECIFICATIONS

Type			PW4MC3...					
Order-No.			1-PW4C3/ 300G-1	1-PW4C3/ 500G-1	1-PW4MC3/ 1KG-1	1-PW4C3/ 2KG-1	1-PW4C3/ 3KG-1	1-PW4MC3/ 5KG-1
Accuracy class ¹⁾			C3					
Maximum number of load cell intervals n _{LC}			3000					
Maximum capacity ²⁾	E _{max}	kg	0.300	0.500	1	2	3	5
Minimum LC verification interval	v _{min}	g	0.05	0.1	0.2	0.5	0.5	1
Temperature effect on zero balance	TK ₀	% of. C _n / 10 K	0.0233	0.0280	0.0200	0.0200	0.0200	0.0200
Ratio of minimum verification interval	γ		6000	5000	5000	10000	6000	5000
Max. platform size		mm	200 x 200					
Sensitivity	C _n	mV/V	1.0 ± 0.1		2.0 ± 0.2			
Zero signal			0 ± 0.03		0 ± 0.06			
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}	± 0.0150				
Non - linearity ³⁾	d _{lin}	% of C _n	± 0.0150					
Minimum dead load output return	DR		± 0.0166					
Off center load error ⁴⁾			± 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 ... 15					
Max. excitation voltage		V	15					
Insulation resistance at 100 V _{DC}	R _{is}	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 ⁴⁾	E _L	% of E _{max}	150					
at max. eccentricity		mm	100					
Lateral load limit , static	E _{lq}	% of E _{max}	200					
Breaking load	E _d		> 300					
Deflection at E _{max} , approx.	s _{nom}	mm	< 0.5					
Weight, without cable, approx.	m	kg	0.05					
Degree of protection ⁵⁾			IP67					
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

Subject to modifications.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.