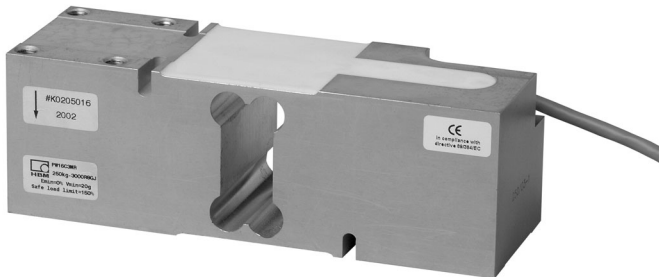


PW16C3 / PW16C3-MR

Single point load cells

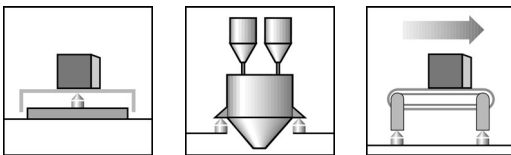
Special features



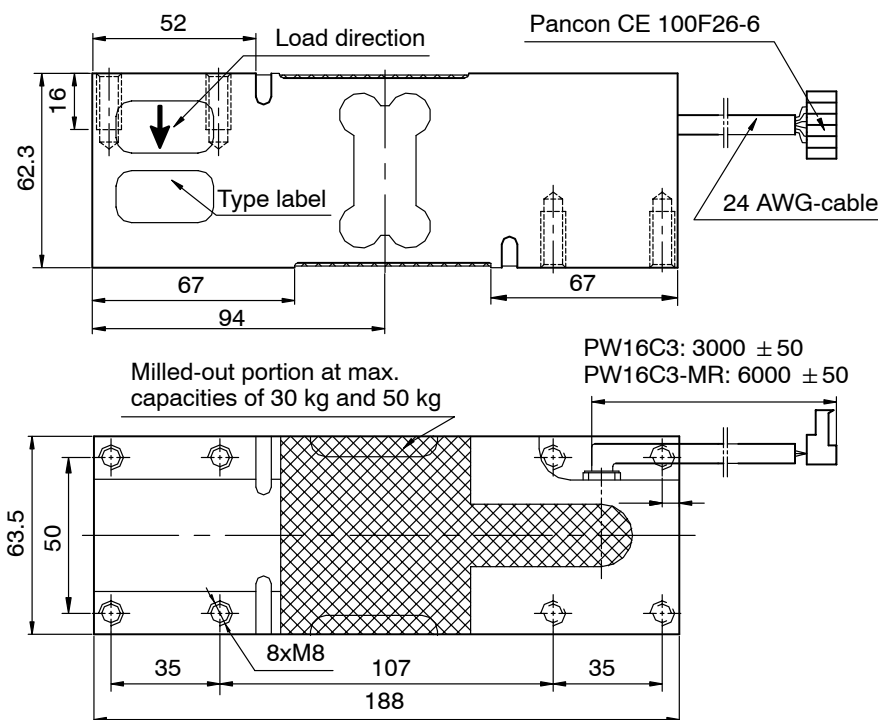
- OIML-R60 approval
- Max. Capacities: 30 kg...660 kg
- Off center load compensated (OIML R76)
- Meets EMC standards (EN 45 501)
- 6-wire circuit

PW16C3-MR version:

- Reduced minimum LC verification interval (v_{min}) for multi range applications
- Parallel connection of equal LC possible
- Cable length 6 m



Dimensions (in mm; 1 mm = 0.03937 inches)



Wiring code (6-core):

1. Sense (-) grey
 2. Sense (+) green
 3. Excitation (+) blue
 4. Excitation (-) black
 5. Signal (-) red
 6. Signal (+) white
- Shield yellow
(connected to load cell body)

Mounting:

- Cylindrical head screw M8-10.9
(660 kg: M8-12.9)
Tightening torque: 32 N·m
(660 kg: 39 N·m)

Specifications

Type		PW16C3										PW16C3-MR									
Accuracy class		C3 ¹⁾										C3MR ¹⁾									
Number of load cell intervals (n _{LC})		3000										3000									
Max. capacity (E _{max})*	kg	30	50	75	100	150	200	250	300	500	660	30	50	75	100	150	200	250	300	500	660
Minimum LC verification interval (V _{min})	g	5	10	10	20	20	50	50	50	100	100	2	5	5	10	10	20	20	20	50	50
Temperature effect on zero balance (TK ₀)	% of C _n /10 K	±0.0233	±0.0280	±0.0187	±0.0280	±0.0187	±0.0350	±0.0280	±0.0233	±0.0280	±0.0212	±0.0093	±0.0140	±0.0093	±0.0140	±0.0093	±0.0140	±0.0112	±0.0093	±0.0140	±0.0106
Max. platform size	mm	600 x 600										600 x 600									
Sensitivity (C _n)	mV/V	2.0 ± 0.2										2.0 ± 0.002									
Zero balance		0 ± 0.1										0 ± 0.1									
Temperature effect on sensitivity (TK _C) ²⁾ Temperature range +20 ... +40 °C [+68 ... +104 °F] -10 ... +20 °C [+13 ... +68 °F]	% of C _n /10 K	±0.017 ±0.011										±0.017 ±0.011									
Hysteresis error (d _{hy}) ²⁾		±0.0166										±0.0166									
Non-linearity (d _{lin}) ²⁾		±0.0166										±0.0166									
Minimum dead load output return (DR)	% of C _n	±0.0166										±0.0166									
Off center load error ³⁾		±0.0233										±0.0233									
Input resistance (R _{LC})	Ω	420 ± 15										420 ± 15									
Output resistance (R ₀)	Ω	350 ± 5										350 ± 0.3									
Reference excitation voltage (U _{ref})	V	5										5									
Nominal range of excitation voltage (B _U)	V	0 ... 12										0 ... 12									
Max. excitation voltage	V	15										15									
Insulation resistance (R _{is}) at 100 V _{DC}	GΩ	> 2										> 2									
Nominal temperature range (B _T)	°C	-10 ... +40 [+14 ... +104]										-10 ... +40 [+14 ... +104]									
Service temperature range (B _{tu})	[°F]	-10 ... +50 [+14 ... +122]										-10 ... +50 [+14 ... +122]									
Storage temperature range (B _{st})		-25 ... +70 [-13 ... +158]										-25 ... +70 [-13 ... +158]									
Safe load limit (E _L)	% of E _{max}	150										150									
Lateral limit force (E _{lq}), static		300										300									
Breaking load (E _d)		300										300									
Deflection at E _{max} (s _{nom}), approx.	mm	< 0.6										< 0.6									
Weight (G), approx.	kg	1.8										1.8									
Protection class according to EN 60 529 (IEC 529)		IP67										IP67									
Material: Measuring element Coating Cable sheath		Aluminium Silicone rubber PVC										Aluminium Silicone rubber PVC									

* For max. capacities 30kg, 50kg: OIML certificate in preparation

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

²⁾ The sum of data for Non-linearity, Hysteresis error and TC Span meets the requirements of OIML R60.

³⁾ Eccentric error according to OIML R76 class.

Option (on request) (ranges 75 kg ... 660 kg):

Explosion proof version according to ATEX95 II 2 G EEx ia IIC T4 resp. T6 (Zone 1)
and II 2 D EEx ia D21 T100 °C (Zone 21)

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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