

# PW10C3 / PW10C3-MR

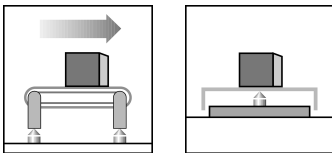
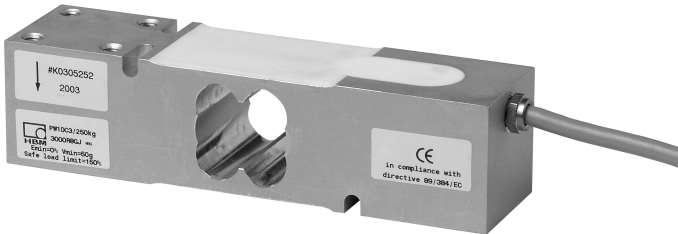
Single point load cells

## Special features

- OIML-R60 approval
- Max. capacities: 50 kg ... 300 kg
- Off center load compensated (OIML R76)
- Meets EMC standards (EN 45 501)
- Shielded connection cable
- 6-wire circuit

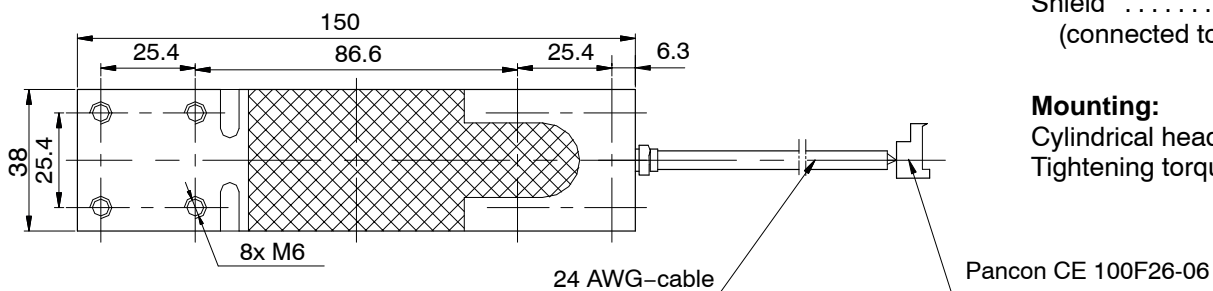
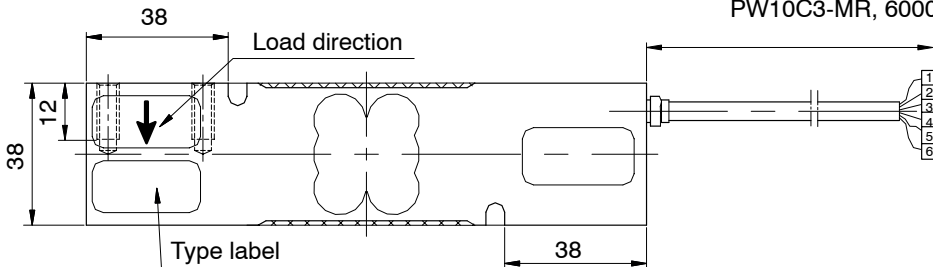
### PW10C3-MR version:

- 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)

Round cable: PW10C3, 3000 mm  
PW10C3-MR, 6000 mm



### Wiring code (6-core):

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

### Mounting:

Cylindrical head screw M6-10.9  
Tightening torque: 14 N·m

## Specifications

Type		PW10C3						PW10C3-MR					
Accuracy class		C3 <sup>1)</sup>						C3MR <sup>1)</sup>					
Number of load cell intervals (n <sub>LC</sub> )		3000						3000					
Maximum capacity (E <sub>max</sub> )	kg	50	100	150	200	250	300 <sup>2)</sup>	50	100	150	200	250	300 <sup>2)</sup>
Minimum LC verification interval (V <sub>min</sub> )	g	10	20	20	50	50	50	5	10	10	20	20	20
Temperature effect on zero balance (TK <sub>0</sub> )	% v. C <sub>n</sub> / 10 K	± 0.0280	± 0.0280	± 0.0186	± 0.0350	± 0.0280	± 0.0233	± 0.0140	± 0.0140	± 0.0093	± 0.0140	± 0.0112	± 0.0093
Max. platform size	mm	600 x 500						600 x 500					
Sensitivity (C <sub>n</sub> )	mV/V	2.0 ± 0.2						2.0 ± 0.002					
Zero balance		0 ± 0.1						0 ± 0.1					
Temperature effect on sensitivity (TK <sub>C</sub> ) <sup>3)</sup> Temperature range: +20 ... +40 °C [+70 ... +105 °F] -10 ... +20 °C [+15 ... +70 °F]	% v. C <sub>n</sub> / 10 K	± 0.017 ± 0.011						± 0.017 ± 0.011					
Hysteresis error (d <sub>hy</sub> ) <sup>3)</sup>	% v. C <sub>n</sub>	± 0.0166						± 0.0166					
Non-linearity (d <sub>lin</sub> ) <sup>3)</sup>		± 0.0166						± 0.0166					
Minimum dead load output return (DR)		± 0.0166						± 0.0166					
Off center load error <sup>4)</sup>		± 0.0233						± 0.0233					
Input resistance (R <sub>LC</sub> )	Ω	420 ± 15						420 ± 15					
Output resistance (R <sub>0</sub> )		350 ± 5						350 ± 0.3					
Reference excitation voltage (U <sub>ref</sub> )	V	5						5					
Nominal range of excitation voltage (B <sub>U</sub> )		0 ... 12						0 ... 12					
Max. excitation voltage		15						15					
Insulation resistance (R <sub>is</sub> ) at 100 V <sub>DC</sub>		> 2						> 2					
Nominal temperature range (B <sub>T</sub> )	°C [°F]	-10 ... +40 [+14 ... +104]						-10 ... +40 [+14 ... +104]					
Service temperature range (B <sub>tu</sub> )		-10 ... +50 [+14 ... +122]						-10 ... +50 [+14 ... +122]					
Storage temperature range (B <sub>tl</sub> )		-25 ... +70 [-13 ... +158]						-25 ... +70 [-13 ... +158]					
Safe load limit (E <sub>L</sub> )	% of E <sub>max</sub>	150						150					
at max. eccentricity	mm	150						150					
Lateral load limit (E <sub>lq</sub> ), static	%	300						300					
Breaking load (E <sub>d</sub> )	of E <sub>max</sub>	300						300					
Deflection at E <sub>max</sub> (s <sub>nom</sub> ), approx.		<0,5						<0,5					
Weight (G), approx.		0,6						0,6					
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					

1) In accordance to OIML-R60 with P<sub>LC</sub> = 0.7

2) OIML-60 certificate in preparation.

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

4) Eccentric error according to OIML R76 class.

**Option (on request) (ranges 50 kg ... 250 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.

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