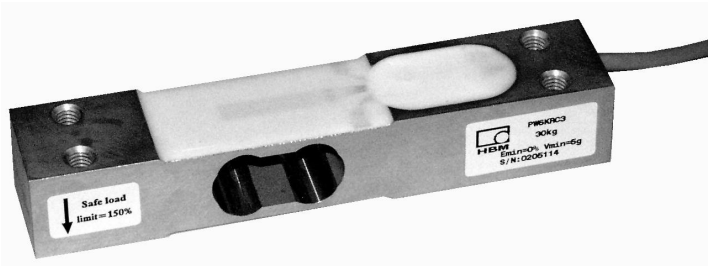
Data Sheet

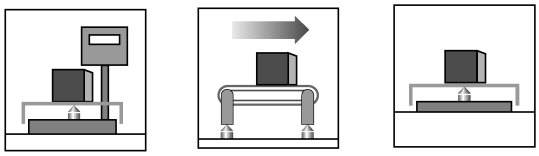
PW6KRC3...

Single point load cell

Special features

- **Accuracy class C3 according to OIML-R60 approval**
- **Off center load compensated (OIML R76)**
- **Protection class IP65 according to EN 60 529**
- **shielded connection cable**

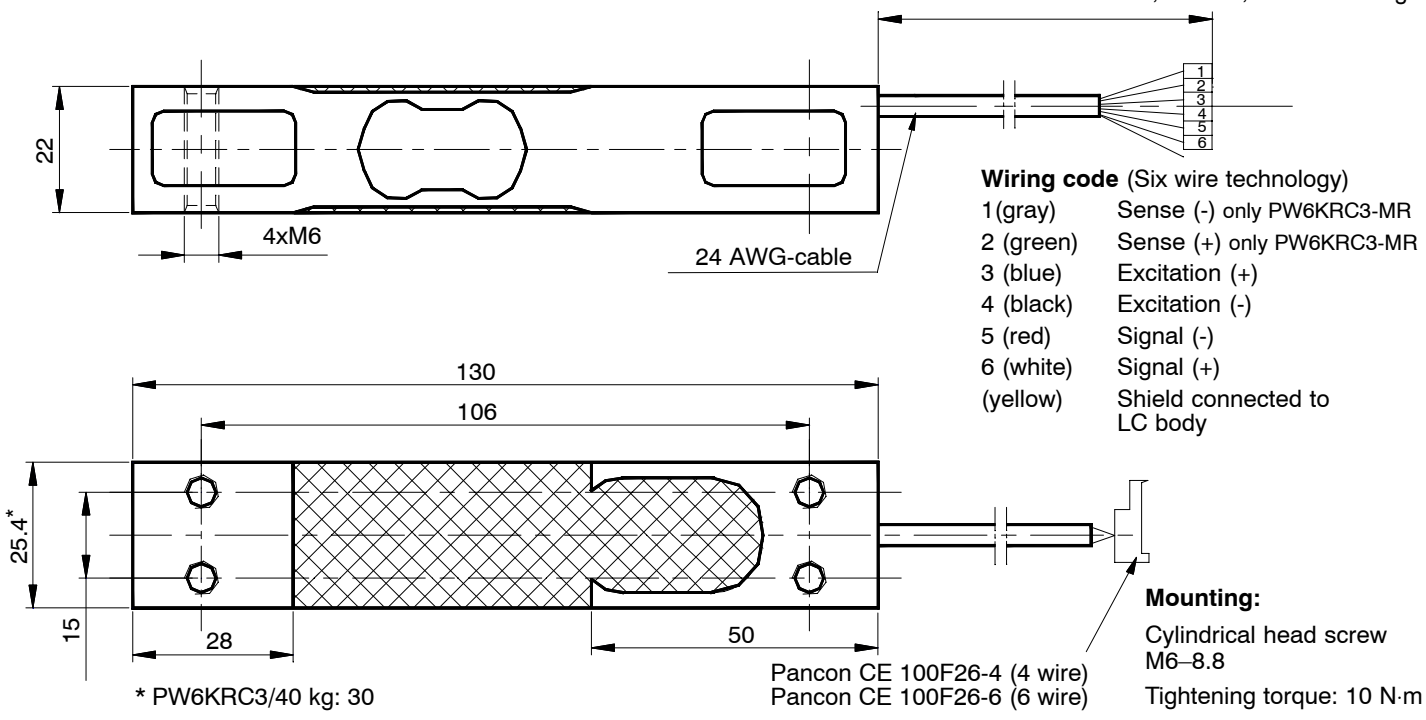




PW6KRC3-MR version:

- **Reduced Minimum LC verification interval v_{min} for multi range applications**
- **Parallel connection of equal LC possible**
- **6-wire circuit**
- **shielded connection cable (3 m)**

Dimensions (in mm; 1 mm= 0.03937 inches)



Wiring code (Six wire technology)

1(gray)	Sense (-) only PW6KRC3-MR
2 (green)	Sense (+) only PW6KRC3-MR
3 (blue)	Excitation (+)
4 (black)	Excitation (-)
5 (red)	Signal (-)
6 (white)	Signal (+)
(yellow)	Shield connected to LC body

Mounting:

Cylindrical head screw M6–8.8

Tightening torque: 10 N·m

* PW6KRC3/40 kg: 30

Specifications

Type		PW6KRC3							PW6KRC3-MR						
Accuracy class		C3 [1]							C3MR						
Maximum number of load cell intervals (n_{LC})		3000							3000						
Maximum capacity (E_{max})	kg	3	5	10	15	20	30	40	3	5	10	15	20	30	40
Minimum LC verification interval (v_{min})	g	0.5	1	2	5	5	5	10	0.2	0.5	1	2	2	2	5
Max. platform size	mm	300 x 300							300 x 300						
Sensitivity (C_n)	mV/V	2.0 ±0.1							2.0 ±0.002						
Zero signal		0 ±0.1							0 ±0.1						
Temperature effect on zero balance (TK_0)	% of. C_n / 10K	±0.0233	±0.0280	±0.0280	±0.0186	±0.0350	±0.0233	±0.0350	±0.0093	±0.0140	±0.0140	±0.0093	±0.0140	±0.0093	±0.0175
Temperat. effect on sensitivity (TK_C) [2] Temperature range: +20 ... +40 °C [68...104 °F]		±0.0175							±0.0175						
−10 ... +20 °C [14...68 °F]		±0.0117							±0.0117						
Hysteresis error (d_{hy}) [2]	% of C_n	±0.0150							±0.0150						
Non-Linearity (d_{lin}) [2]		±0.0150							±0.0150						
Creep (d_{cr}; d_{DR}), over 30 min.		±0.0166							±0.0166						
Off center load error [3]		±0.0233							±0.0233						
Input resistance (R_{LC})	Ω	420 ±20							420 ±20						
Output resistance (R_0)		350 ±5							350 ±0,3						
Reference excitation voltage (U_{ref})	V	5							5						
Nominal range of excitation voltage (B_U)		1 ... 15							1 ... 15						
Insulationresistance (R_{is}) at 100 V_{DC}	GΩ	> 2							> 2						
Nominal temperature range (B_T)	°C [°F]	−10 ... +40 [14...104]							−10 ... +40 [14...104]						
Service temperature range (B_{tu})		−10 ... +50 [14...122]							−10 ... +50 [14...122]						
Storage temperature range (B_{tl})		−25 ... +70 [-13...158]							−25 ... +70 [-13...158]						
Limit load (E_L) *)	% of E_{max}	150							150						
***) at max. eccentricity**	mm	100							100						
Lateral load limit (E_{lq}), static	% of E_{max}	300							300						
Breaking load (E_d)		300							300						
Nominal displacement at E_{max} (s_{nom}), approx.	mm	< 0.4							< 0.4						
Weight, without cable (G), approx.	kg	0.17						0.2	0.17						0.2
Protection class according to (IEC529)		IP65							IP65						
Material: Measuring element		Aluminum							Aluminum						
Cover		Silicone rubber							Silicone rubber						
Cable sheet		PVC							PVC						

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

2) 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.

3) According to OIML R76.

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45, D-64293 Darmstadt, Germany
Tel.: +49 6151 8030; Fax: +49 6151 803 9100
E−mail: support@hbm.com www.hbm.com