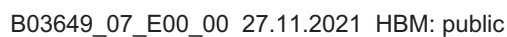
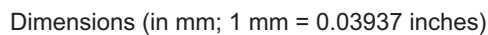


Data sheet

Special features

- Maximum capacities 7.5 kg ... 200 kg
- Stainless steel
- High ratio of minimum verification interval Y
- Meets EMC guidelines
- Explosion-proof versions and other options available



Specifications PW15B (C3 MR)

Type			PW15B (C3 MR)									
Accuracy class ¹⁾			C3 Multi Range (MR)									
Number of scale intervals	n_{LC}		3000									
Nominal (rated) load	E_{max}	kg	7.5	15	20	30	50	75	100	150	200	
Minimum load cell verification interval	v_{min}	g	0.5	1	2	2	5	5	10	10	20	
Ratio of minimum verification interval	Y		15000	10000	15000	10000	15000	10000	15000	10000	10000	
Temperature coefficient of zero signal per 10K	TK_0	% of C_n	± 0.0093	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140	
Maximum platform size		mm	500 x 400									
Nominal (rated) sensitivity	C_n	mV/V	2.0 $\pm$ 0.2 (Option 6: 2.0 mV/V $\pm$ 0.1%)									
Zero signal			0 $\pm$ 0.1									
Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range +20 ... +40 °C -10 ... +20 °C	TK_C	% of C_n	± 0.0175									
Linearity error ²⁾	d_{lin}		± 0.0117									
Relative reversibility error ²⁾	d_{hy}		± 0.0166									
Minimum dead load output return	MDLOR		± 0.0166									
Off-center load error ³⁾			≤ 233									
Input resistance	R_{LC}	Ω	300 ... 500									
Output resistance	R_0		300 ... 500 (Option 6: 359 $\pm$ 0.2)									
Reference excitation voltage	U_{ref}	V	5									
Nominal (rated) range of the excitation voltage	B_U		1 ... 12									
Maximum excitation voltage			15									
Insulation resistance at 100 V _{DC}	R_{is}		> 1									
Nominal (rated) temperature range	B_T	°C	-10 ... +40									
Operating temperature range	B_{tu}		-10 ... +50									
Storage temperature range	B_{tl}		-25 ... +70									
Limit load at maximum 160 mm eccentricity	E_L	% of E_{max}	150									
Limit lateral loading, static	E_{lq}		300									
Service load at max. 100 mm eccentricity	E_u		150									
Breaking load at max. 20 mm eccentricity	E_d		300									
Relative permissible oscillation stress at max. 20 mm eccentricity	F_{srel}		70									
Nominal (rated) displacement ⁴⁾ , approx.	s_{nom}	mm	0.21	0.2	0.2	0.2	0.18	0.17	0.17	0.17	0.17	
Weight, approx.	m	kg	1									
Degree of protection ⁵⁾			IP67									
Cable length (standard)		m	3									
Material												
Measuring body			Steel 1.4545 ⁶⁾									
Cover			Silicone rubber									
Cable sheath			PVC									

¹⁾ As per OIML R60, with $P_{LC} = 0.7$.

²⁾ The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TK_C) are recommended values. The sum of these values is within the cumulative error limits laid down by OIML R60.

³⁾ As per OIML R76.

⁴⁾ Loading with E_{max} and center of gravity in center of load cell.

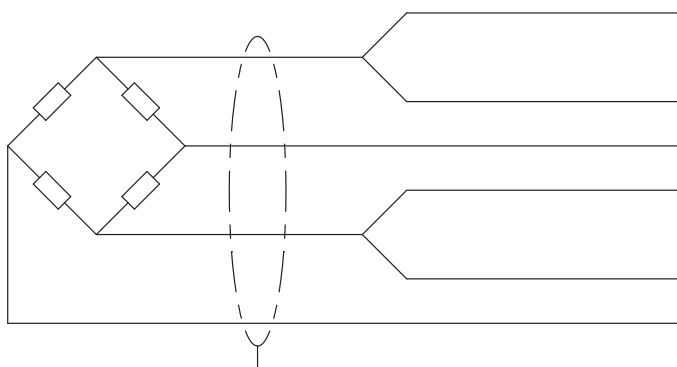
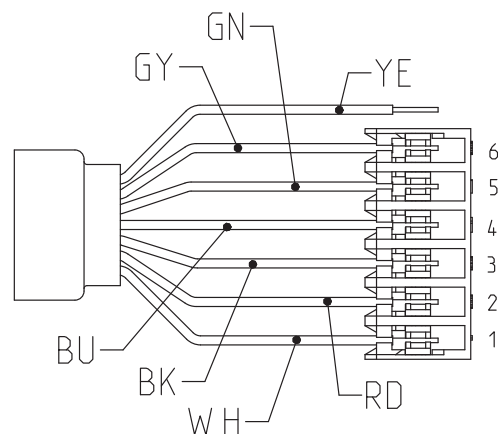
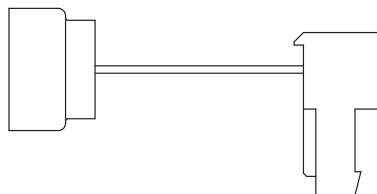
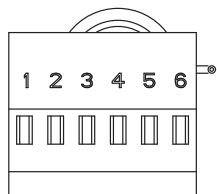
⁵⁾ As per EN 60529 (IEC 529).

⁶⁾ As per EN 10088-1.

Cable assignment

6-wire cable connection, 6 x 0.14 mm²/AWG 26 (available cable lengths: 1.5 m; 3 m; 6 m, 12 m)

Schematic diagram of a TE connector (TE 3-640442-6), 6-pin



Plug-in contact 4 (blue [BU]) = excitation voltage (+)

Plug-in contact 5 (green [GN]) = sense line (+)

Plug-in contact 1 (white [WH]) = measurement signal (+)

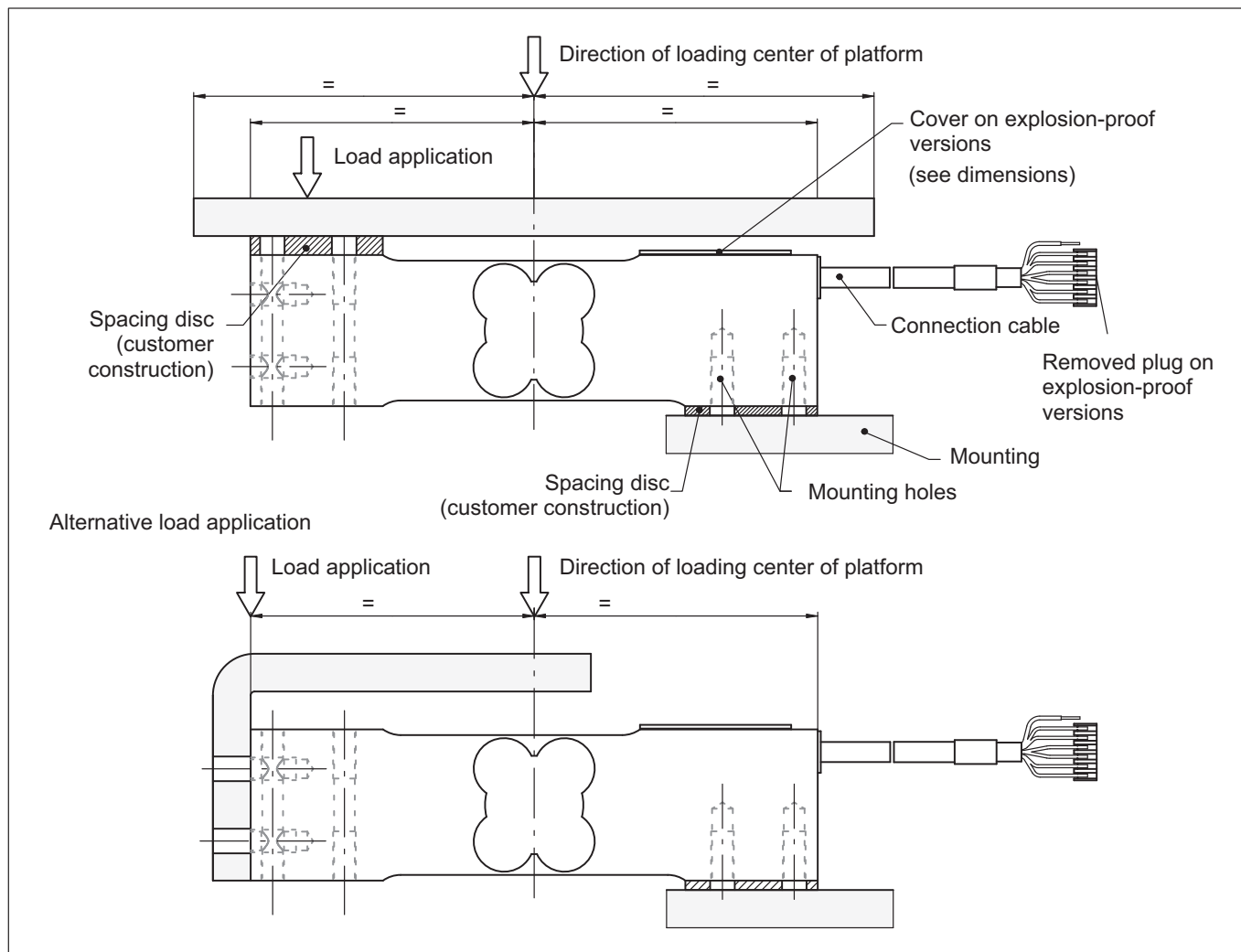
Plug-in contact 3 (black [BK]) = excitation voltage (-)

Plug-in contact 6 (gray [GY]) = sense line (-)

Plug-in contact 2 (red [RD]) = measurement signal (-)

Shield (yellow [YN]) = Cable shield

Mounting instructions



Maximum capacity	Socket head cap screw	Maximum tightening torque
7.5 kg ... 150 kg	M6 10.9	14 N·m
200 kg	M8 10.9	33 N·m

Product numbers (overview)

Type	PW15B
Accuracy class	C3-MR (OIML)
Comments	Cable length 3 m (six-wire config.)
Nominal (rated) load	Order number
7.5 kg	1-PW15BC3/7.5KG-1
15 kg	1-PW15BC3/15KG-1
20 kg	1-PW15BC3/20KG-1
30 kg	1-PW15BC3/30KG-1
50 kg	1-PW15BC3/50KG-1
75 kg	1-PW15BC3/75KG-1
100 kg	1-PW15BC3/100KG-1
150 kg	1-PW15BC3/150KG-1
200 kg	1-PW15BC3/200KG-1

K-PW15B... (stainless steel), optional versions

Order no.	
K-PW15B	

Code	Option 1: Mechanical design
N	Standard

Code	Option 2: Accuracy class
MR	C3-MR (OIML) (Multi Range)

Code	Option 3: Nominal (rated) load
7.5	7.5 kg
15	15 kg
20	20 kg
30	30 kg
50	50 kg
75	75 kg
100	100 kg
150	150 kg
200	200 kg

Code	Option 4: Explosion protection
N	No explosion protection
A11/21	ATEX+IECEX+FM Zone 1/21, intrinsically safe; ATEX/IECEX: II 2G Ex ia IIC T6/T4 Gb + II 2D Ex ia IIIC T125°C Db; FM(US/CA): Class I Zone 1 AEx/Ex ia IIC T4 Gb + Zone 21 AEx/Ex ia IIIC T125°C Db; FM(US): Class I, II, III Division 1, Groups A, B, C, D, E, F, G T4
A12/22	ATEX+IECEX Zone 2/22, non-intrinsically safe; ATEX/IECEX: II 3G Ex ec IIC T6/T4 Gc + II 3D Ex tc IIIC T125°C Dc

Code	Option 5: Cable length
1.5	1.5 m
3	3 m (Standard)
6	6 m
12	12 m

Code	Option 6: Other
N	none
A	2 mV/V 0.1% / 359 Ω $\pm$ 0.2 Ω (aligned output, suitable for parallel connection)

K-PW15B - [N] - [M] [R] - [] [] [] - [] [] [] [] [] [] - [] [] [] - []

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

Hottinger Brüel & Kjaer GmbH
Im Tiefen See 45 · 64293 Darmstadt · Germany
Tel. +49 6151 803-0 · Fax +49 6151 803-9100
Email: info@hbkworld.com · www.hbm.com

measure and predict with confidence

