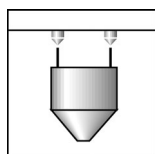
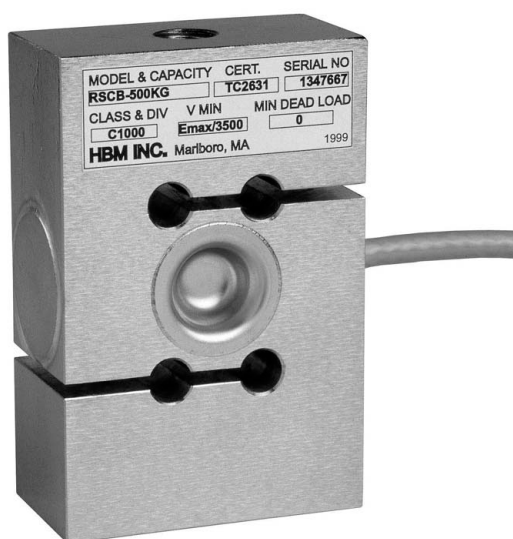




RSCB...

Load cells

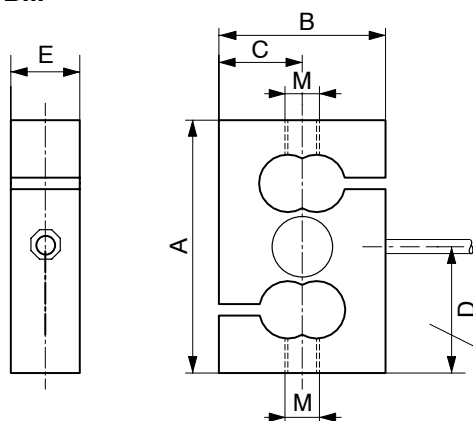


Special features

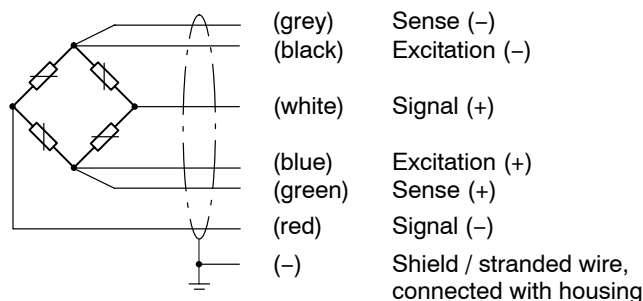
- Load cell with strain gauge measuring system
- Max. capacities: 200 kg ... 5 t
- Hermetically sealed
- Stainless steel
- Complies with OIML R60 regulations up to 3000 d for scales class III
- Meets EMC/ESD requirements according to EN 45 501
- 6-wire circuit
- Explosion proof version acc. to ATEX 95 (optional)

Dimensions (in mm; 1 mm= 0.03937 inches)

RSCB...



Wiring code (6-wire circuit)



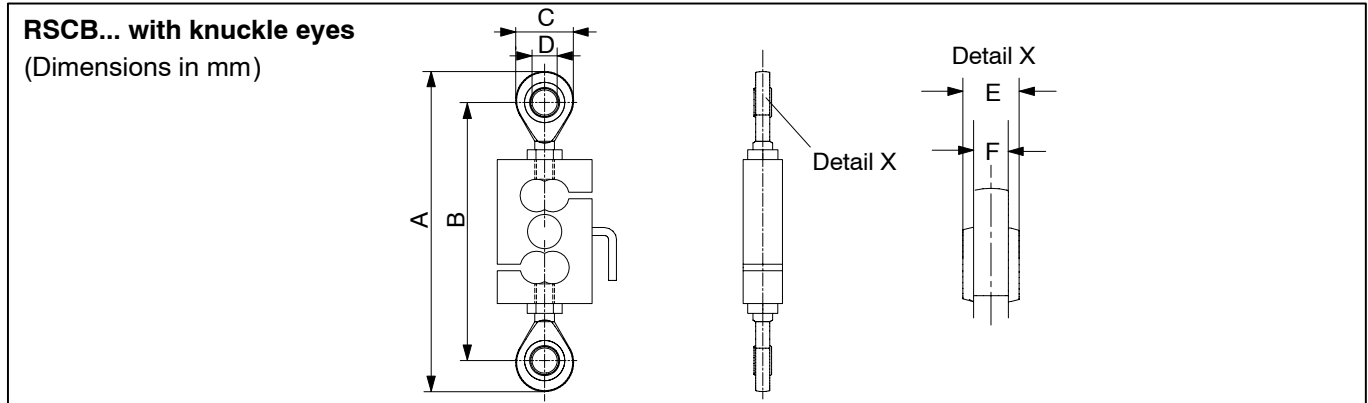
Cable 6 m, 6-wire,
Ø approx. 5 mm,
shield connected
with housing

Maximum capacity	A	B	C	D	E	M
200 kg; 500 kg; 1 t	87.3	57.2	28.6	43.7	31.0	M12x1.75
2 t	100	69.8	34.9	50	31.0	M24x2
5 t	100	76.2	38.1	50	36.5	M24x2

Specifications

Type		RSCBC1/...					RSCBC3/...			
Accuracy class according to OIML R 60		C1					C3			
Max. number of load cell verification intervals (n_{LC})		1000					3000			
Maximum capacity (E_{max})		200 kg	500 kg	1 t	2 t	5 t	500 kg	1 t	2 t	5 t
Min. load cell verification interval (v_{min})	% of E_{max}	0.0286					0.0120			
Sensitivity (C_n)	mV/V	2					2			
Sensitivity tolerance	%	± 0.25					± 0.25			
Temperature effect on sensitivity (TK_C) ¹⁾	% of C_n / 10 K	± 0.0230					± 0.0140			
Temperature effect on zero balance (TK_0)		± 0.0400					± 0.0170			
Hysteresis error (d_{hy}) ¹⁾		± 0.0500					± 0.0170			
Non-linearity (d_{lin}) ¹⁾	% of C_n	± 0.1000					± 0.0180			
Creep (d_{cr}) over 30 min.		± 0.0490					± 0.0245			
Input resistance (R_{LC}) (nominal)	Ω	350								
Output resistance (R_0)		350 ± 1.5								
Reference excitation voltage (U_{ref})	V	5								
Nominal range of excitation voltage (B_U)		0.5...12								
Insulation resistance (R_{is})	G Ω	> 5								
Nominal temperature range (B_T)		-10 ... +40 [+14 ... +104]								
Service temperature range (B_{tu})	°C [°F]	-30 ... +70 [-22 ... +158]								
Storage temperature range (B_{tl})		-50 ... +85 [-58 ... +185]								
Safe load limit (E_L)		150								
Breaking load (E_d)		300								
Permissible dynamic load (F_{srel}) (vibration amplitude according to DIN 50100)	% of E_{max}	70								
Deflection at E_{max} (s_{nom}), ± 15 %	mm	0.15	0.25	0.38	0.46	0.15	0.25	0.38	0.46	
Weight (G), approx.	kg	0.77		1.6	1.8	0.77		1.6	1.8	
Protection class acc. to EN60529 (IEC529)		IP 68 (test conditions 1 m water column / 100 h)								
Material: Measuring element		Stainless steel								
Cable fitting		Stainless steel / Sealing: Neoprene								
Cable-sheath		PVC								

1) 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.



Maximum capacity	Knuckle eyes	A	B	Ø C	Ø DH7	E	F
200 kg; 500 kg; 1 t	U2A/1t/ZGUW (2x)	190 ... 203	158 ... 171	32	12	16	12
2 t	U2A/5t/ZGUW (2x)	291 ... 320	231 ... 260	60	25	31	22
5 t	U2A/5t/ZGUW (2x)	301 ... 320	241 ... 260	60	25	31	22

Options: Explosion-proof versions according to ATEX 95:

- II 2 G EEx ia IIC T4 resp. T6 (Zone 1) *)
- II 3 G EEx nA II T6 (Zone 2)
- II 2 D IP67 T80°C (Zone 21) *)
- II 3 D IP68 (Zone 22 for non-conductive dust)

*) with EC-Type Examination Certificate

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