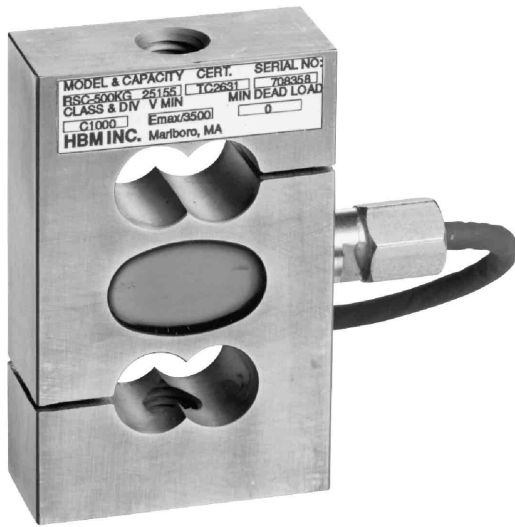




RSCA...

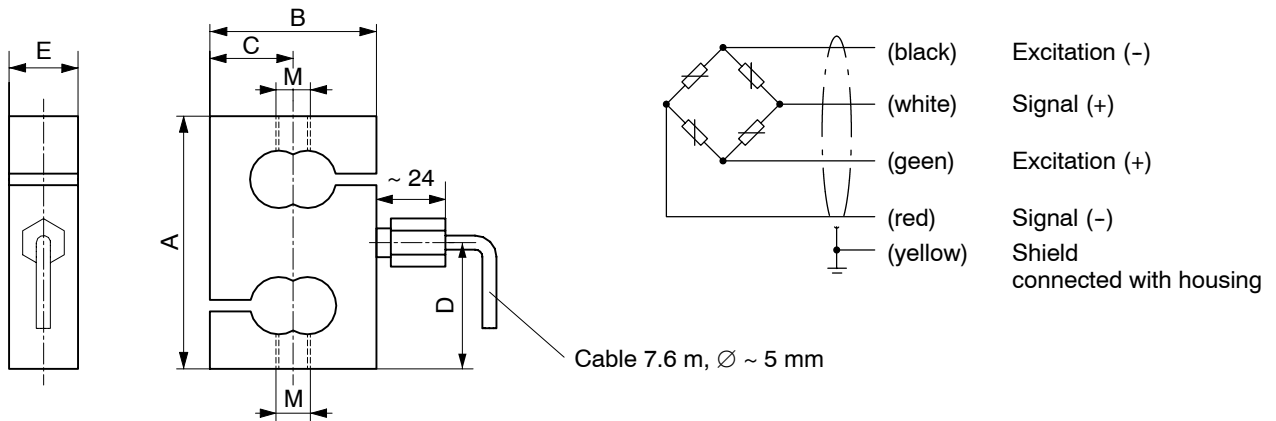
Load cells



Special features

- Load cell with strain gage measuring system
- Nominal (rated) capacities: 50 kg ... 5 t
- Stainless steel
- Legal for trade verification up to 3000 d (OIML R60)
- Meets EMC / ESD requirements according to EN 45 501
- Explosion proof versions according to ATEX 95 optional

Dimensions (in mm; 1 mm= 0.03937 inches)



| E _{max} RSCA... | A | B | C | D | E | M |
|--------------------------|------|------|------|------|------|----------|
| 50 kg; 100 kg | 62 | 50.8 | 25.4 | 31 | 15 | M8x1.25 |
| 200 kg; 500 kg; 1 t | 87.3 | 57.2 | 28.6 | 43.7 | 24 | M12x1.75 |
| 2 t | 100 | 69.8 | 34.9 | 50 | 30.2 | M24x2 |
| 5 t | 100 | 76.2 | 38.1 | 50 | 36.6 | M24x2 |

Technical Data

| Type | RSCA C1 | | | | | | | RSCA C3 | | | | | | | | |
|---|--|--------|--------|--------|------|-----|------|----------------------------|------|-----|------|--|------|--|------|--|
| Accuracy class according to OIML R 60 | D1 | | | | | | | C3 | | | | | | | | |
| Max. numbers of load cell intervals (n_{LC}) | 1000 | | | | | | | 3000 | | | | | | | | |
| Nominal (rated) capacity (E_{max}) | 50 kg | 100 kg | 200 kg | 500 kg | 1 t | 2 t | 5 t | 500 kg | 1 t | 2 t | 5 t | | | | | |
| Minimum LC verification interval (v_{min}) | 0.0286 | | | | | | | 0.0120 | | | | | | | | |
| Sensitivity (C_n) | 2 | | | | | | | 2 | | | | | | | | |
| Sensitivity tolerance | ±0.2500 | | | | | | | ±0.2500 | | | | | | | | |
| Temperature effect on sensitivity (TK_C) ¹⁾ | ±0.0230 ¹⁾ | | | | | | | ±0.0140 ¹⁾ | | | | | | | | |
| Temperature effect on zero signal (TK_0) | ±0.0400 | | | | | | | ±0.0170 | | | | | | | | |
| Hysteresis error (d_{hy}) ¹⁾ | ±0.0500 ¹⁾ | | | | | | | ±0.0170 ¹⁾ | | | | | | | | |
| Non-Linearity (d_{lin}) ¹⁾ | ±0.1000 ¹⁾ | | | | | | | ±0.0180 ¹⁾ | | | | | | | | |
| Creep (d_{cr}) 30 min. | ±0.0490 | | | | | | | ±0.0250 | | | | | | | | |
| Input resistance (R_{LC}) (nominal) | 350 | | | | | | | 350 | | | | | | | | |
| Output resistance (R_0) | 350 ±1.5 | | | | | | | 350 ±1.5 | | | | | | | | |
| Reference excitation voltage (U_{ref}) | 5 | | | | | | | 5 | | | | | | | | |
| Nominal range of excitation voltage (B_U) | 0.5 ... 15 | | | | | | | 0.5 ... 15 | | | | | | | | |
| Insulation resistance (R_{is}) | > 5 | | | | | | | > 5 | | | | | | | | |
| Nominal range of ambient temperature (B_T) | -10 ... +40 [+14 ... +104] | | | | | | | -10 ... +40 [+14 ... +104] | | | | | | | | |
| Service temperature range (B_{tu}) | -30 ... +70 [-22 ... +158] | | | | | | | -30 ... +70 [-22 ... +158] | | | | | | | | |
| Storage temperature range (B_{tl}) | -50 ... +85 [-58 ... +185] | | | | | | | -50 ... +85 [-58 ... +185] | | | | | | | | |
| Limit load (E_L) | 150 | | | | | | | 150 | | | | | | | | |
| Breaking load (E_d) | 250 | | | | | | | 250 | | | | | | | | |
| Permissible dynamic load (F_{srel}) (vibration amplitude according to DIN 50100) | 70 | | | | | | | 70 | | | | | | | | |
| Deflection at E_{max} (s_{nom}), approx. | 0.15 | | 0.25 | | 0.38 | | 0.46 | | 0.15 | | 0.25 | | 0.38 | | 0.46 | |
| Weight (G) with cable, approx. | 0.4 | | 0.77 | | 1.6 | | 1.8 | | 0.77 | | 1.6 | | 1.8 | | | |
| Protection class accord. to EN60529 (IEC529) | IP65 (tightened test conditions 1 m water column / 30 min.) | | | | | | | | | | | | | | | |
| Material: Meas. body / Application sealing Cable fitting / Cable sheath | stainless steel / Polyurethane stainless steel, gasket from Perbunan / Polyurethane | | | | | | | | | | | | | | | |

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.

Optionally Explosion-proof versions according to ATEX: II 3 G EEx nA II T6 (Zone 2)
II 3 D IP65 (Zone 22 for non-conductive dust)

Dimensions and Accessories (in mm; 1 mm = 0.03937 inches)

| E_{max} RSCA... | Knuckle eyes | A | B | ∅ C | ∅ DH ⁷ | E | F |
|---------------------|--------------------|-------------|-------------|-----|-------------------|----|----|
| 50 kg + 100 kg | U1R/200KG/ZGW (2x) | 133 ... 154 | 109 ... 130 | 24 | 8 | 12 | 9 |
| 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) | 314 ... 320 | 260 ... 266 | 60 | 25 | 31 | 22 |

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