



**LAHTI**  
PRECISION



# Lahti Precision Load Cells

## BC5 shear beam load cells 500 kg ... 5000 kg

- Rated capacities 500 kg, 1000 kg, 2000 kg and 5000 kg
- Low profile, stainless steel construction
- EU-tested, OIML R60
- Hermetically sealed construction
- Ex versions available for hazardous areas
- Guarantee two years

Series BC5 shear beam load cell is a low profile load cell for several weighing applications. The load cell is ideally suited for process scales and silos as well as for verifiable floor and hopper scales. The load cell is made of stainless steel and sealed by welding.

RGP mounting kits are EU-tested. They can be used for verifiable scales with load cells and WA-series weight indicators. Each load cell comes with manufacturer's inspection certificate.

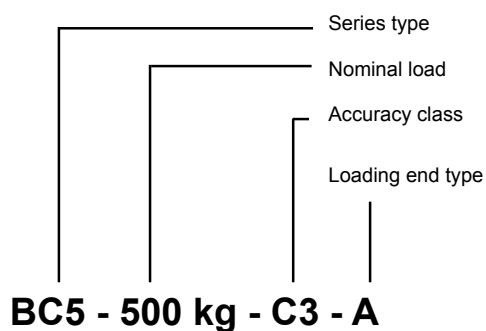
# BC5

## Technical specifications and dimensions

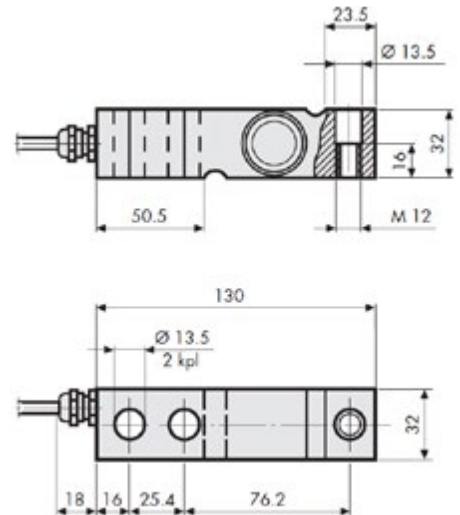
	Symbol	BC5
Accuracy class		C3
Nominal load	$E_{max}$	500, 1000, 2000, 5000 kg
Combined error*	$F_{comb}$	$<\pm 0.020\%$
Nominal sensitivity	$C_n$	2 mV/V
Sensitivity tolerance	$D_c$	$<\pm 0.1\%$
Minimum service range	$B_{amin}$	25 %
Minimum verification interval	$V_{min}$	$E_{max} / 12\ 000$
Repeatability	$F_v$	$<\pm 0,010\%$
Creep 30 min	$F_{cr}$	$<\pm 0.017\%$
Temperature coefficient of zero point/10K	$T_{K0}$	$<\pm 0.011\%$
Temperature coefficient of sensitivity/10K	$T_{Kc}$	$<\pm 0.012\%$
Setting tolerance of zero point	$D_0$	$<\pm 2\%$
Input resistance	$R_e$	$400\pm 20\ \Omega$
Output resistance	$R_a$	$350\pm 3\ \Omega$
Insulation resistance	$R_{is}$	$>1000\ M\Omega$
Reference input voltage	$U_{sr}$	10 V
Maximum voltage supply	$U_{s\ max}$	15 V
Nominal temperature range	$B_{tn}$	$-10^\circ\text{C} \dots +40^\circ\text{C}$
Temperature range	$B_{tu}$	$-30^\circ\text{C} \dots +80^\circ\text{C}$
Deflection at nominal load	$h_n$	$<0,4\ \text{mm}$
Safe overload (% of nominal load)		150 %
Ultimate overload (% of nominal load)		300 %
Environmental protection		IP68
Weight		0,9 kg (500...2000kg) 1,9 kg (5000 kg)

\* Combined error includes non linearity and hysteresis.

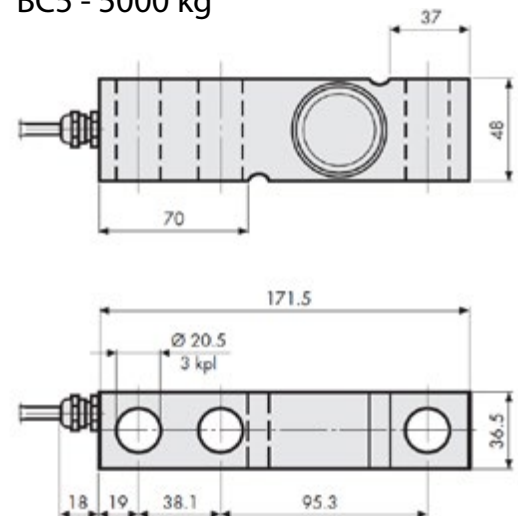
### Markings



### BC5 - 500 kg...2000 kg



### BC5 - 5000 kg



### Wiring Schematic Diagram

