# BUTTON LOAD CELLS SERIES BC 300



# APPLICATIONS AND TECHNICAL FEATURES

The button load cells Series BC 300 find main applications where the very low profile and the extreme compactness are important. They are used in static and dynamic measurements, in compression (BC 302 - BC 303) and in tension and compression (BC 301), for general purpose on machines, for robotics as tactile sensors, for multipoints measurements.

The body of the transducer is in aluminium alloy (= Al) or in high strength stailess steel (= Fe) as listed in the ranges below.

Total error:  $\leq \pm 0.5$  % FS.

## **TECHNICAL SPECIFICATIONS**

Measuring ranges: for BC 302: 0 ÷ 3 - 6 - 12 - 20 - 30 (Al) - 60 - 100 (Fe) Kg FS. for BC 301: 0 ÷± 3 - 6 - 12 - 20 - 30 - 60 (Al) - 100 - 150 (Fe) Kg FS.

- Sensitivity: 2 mV/V FS, typical.
- Thermal shift of zero and of sensitivity:  $\leq \pm 0,08\%$  FS/°C.
- Excitation: 5 V dc/ac; 6 V dc/ac max.
- Electrical connection: by a cable 1 meter long.
  Fixing: BC 302 BC 303: usually by cement; BC 30

BC 302

nt; BC 301: by screws.

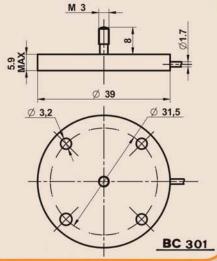


- Reapeatability error:  $\leq \pm 0,1\%$  FS.
- Zero unbalance:  $\leq \pm 3\%$  FS.
- Overload:

BC 303

1,5 times FS max.

# OVERALL DIMENSIONS



# BUTTON LOAD CELLS BC 304 - BC 305



### APPLICATIONS and TECHNICAL FEATURES

The models BC304 and BC305 crown the series BC300 in the higher measuring ranges: the cell BC304 for compression; the cell BC305 for tension and compression.

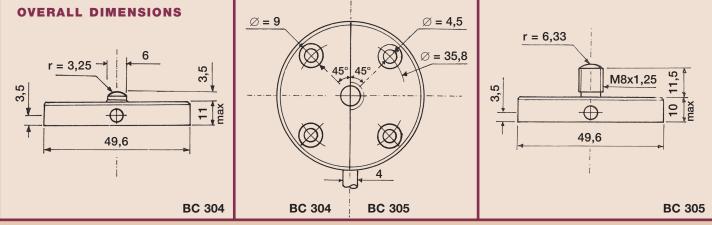
These button load cells find applications for general purpose on machines, where the very low profile and the extreme compactness are important; moreover their small dimensions and easy construction bring them competitive compared to other larger cells with the same measuring ranges.

## **TECHNICAL SPECIFICATIONS**

- Measuring ranges: for BC304 ( compression ):
  - for BC305 (tension and compression):
- Sensivity: 2 mV/V FS., typical. Total error:  $\leq \pm 0.5\%$  FS.
- Thermal shift of zero and of sensitivity:  $\leq \pm 0,08\%$  FS/°C.
- Excitation: 10 V, typical.
- Electrical connection: by cable, 1 meter long.

- 0 ÷ 500 1000 2000 Kg. (1).
- $0 \div \pm 500 \pm 1000$  Kg. (1).
- Repeatability error:  $\leq \pm 0.1\%$  FS.
- Zero unbalance: ≤ ± 3% FS.
  - Overload: 1,3 times FS. max (1).
  - Material: high strength steel.

Note (1): for dynamic loads and shocks the max allowable load must be reduced and anyhow applied on the measuring axis.



Technical specifications and prices may change without notice.





