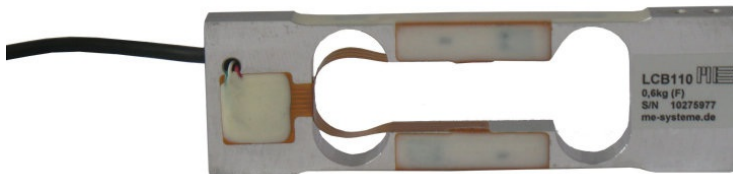
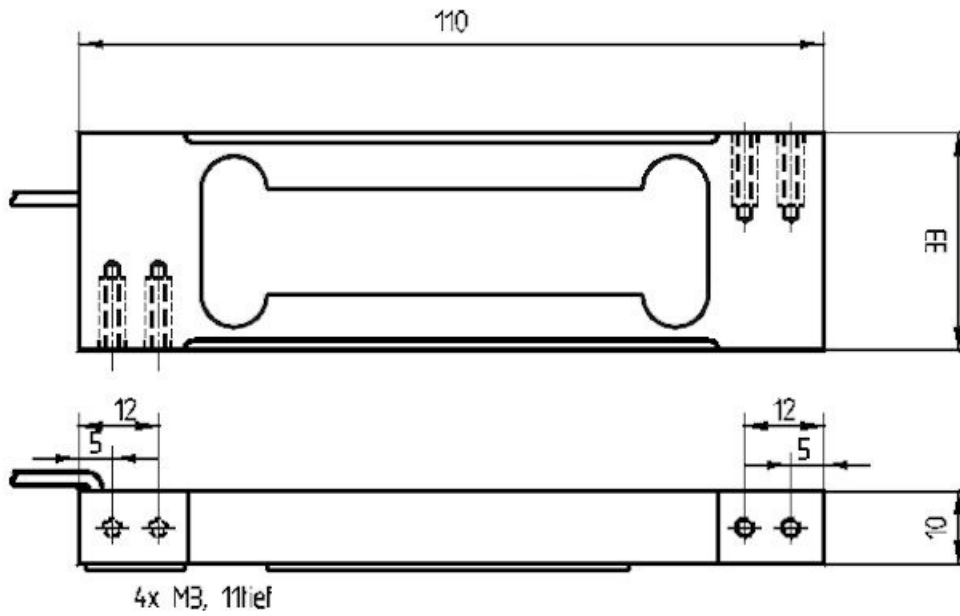


## LCB110 300g, 600g



### Description

## Dimensions



## Technical Data

### Kraftsensoren

|                 |                 |
|-----------------|-----------------|
| Type            | load cell       |
| Force direction | Compression     |
| Material        | Aluminium alloy |
| Breaking force  | 300 %Fs         |

### Elektrische Daten

|   |             |
|---|-------------|
| Input resistance                        | 415 Ohm     |
| Tolerance input resistance              | 20 Ohm      |
| Output resistance                       | 350 Ohm     |
| Tolerance output resistance             | 3 Ohm       |
| Insulation resistance                   | 2 GOhm      |
| Rated range of excitation voltage f     | 2.5 ... 5 V |
| Operating range of excitation voltage f | 1 ... 10 V  |
| Zero signal                             | 10 %Fs      |
| Rated output                            | 0.9 mV/V    |
| relative error of characteristic value  | 0.1 mV/V    |

### Precision

|  |                  |
|--|------------------|
| Accuracy class                             | 0,1%             |
| Temperature effect on zero signal          | 0.1 % Fs / 10°C  |
| Temperature effect on characteristic value | 0.03 % Rd / 10°C |
| Relative creep                             | 0.05 %Rd         |

### Connection Data

|                 |                  |
|-----------------|------------------|
| Connection type | 4 conductor open |
| Cable length    | 0.4 m            |

### Temperature

|                               |               |
|-------------------------------|---------------|
| Rated temperature range f     | -10 ... 40 °C |
| Operating temperature range f | -30 ... 70 °C |
| Storage temperature range f   | -30 ... 70 °C |
| Environmental protection      | IP66          |








## Pin Configuration

| Symbol | Description            | Wire colour |
|--------|------------------------|-------------|
| +Us    | positive bridge supply | green       |
| -Us    | negative bridge supply | black       |
| +Ud    | positive bridge output | red         |
| -Ud    | negative bridge output | white       |

*Shield- transparent.*

## accessories

| Description Description   |  |
|---|--|
|  | GSV-15KL4 Junction box with measuring amplifier for sensors with strain gauges. Analogue output $\pm 10$ Volt and 4...20 mA configurable.  |
|  | KL4 CG clamping box for parallel connection of 4 sensors, dimensions: 175mm x 105mm x 60mm, 4xPG9, 7-pole  |
|  | KL4 M12 clamping box for parallel connection of 4 sensors, dimensions: 175mm x 105mm x 60mm, 4xM12 female, 1xM12 male  |
|  | GSV-1H Measuring amplifier in top-hat rail housing for sensors with strain gauges. Analogue output -10V...+10V, limiting frequency 250Hz, 4 input sensitivities from 2.0mV/V.      |
|  | GSV-6K analog amplifier pcb for sensors with strain gauges. Analog output configurable; sampling frequency is 10Hz ... 25kHz, input sensitivity adjustable 0.1 mV / V ... 8 mV / V |