

DD1

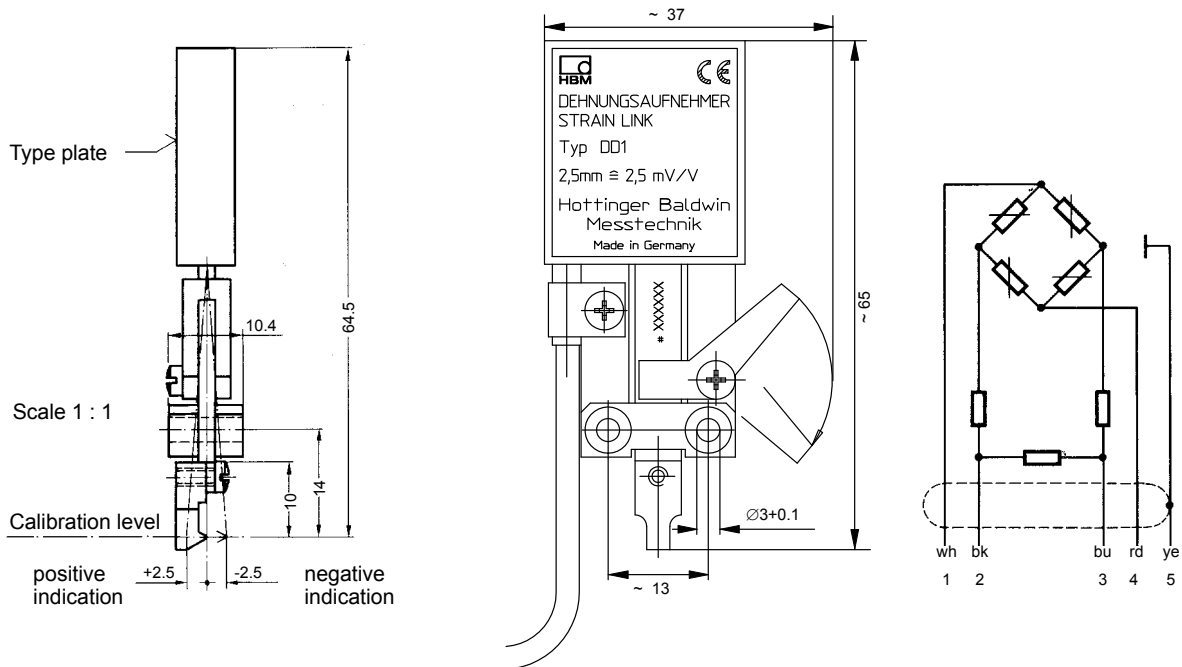
Strain Transducer



Special features

- Versatile strain transducer with strain gage measuring system
- High accuracy
- Compact
- Full range of accessories

Dimensions (in mm; 1 mm = 0.03937 inches)



Dimensions without tolerances are in accordance with DIN 7168 - coarse

Specifications

| Type | | DD1 |
|---|---------|----------------------------|
| Accuracy class | | 0.1 |
| Nominal displacement | mm | ± 2.5 |
| Nominal sensitivity (nominal output signal at nominal displacement) | mV/V | ± 2.5 |
| Sensitivity tolerance (deviation of the sensitivity from nominal sensitivity) | % | ± 0.5 |
| Temperature effect per 10 K in the nominal temperature range | | |
| of the output signal, related to the actual value | % | < ± 0.03 |
| of the zero signal, related to the nominal sensitivity | % | < ± 0.05 |
| Linearity error including hysteresis, related to the nominal output signal | % | < ± 0.05 |
| Electrical principle of measurement | | Strain gage full bridge |
| Input resistance at reference temperature | Ω | 350 ± 3 |
| Nominal range of supply voltage at reference temperature | V | 1 ... 6 |
| Service range of supply voltage | V | 1 ... 10 |
| Spring rate (restoring force of the measuring probe tip) | N/mm | approx. 0.23 |
| Reference temperature | °C [°F] | +23 [+73.4] |
| Nominal temperature range | °C [°F] | -10 ... +60 [+14 ... +140] |
| Service temperature range | °C [°F] | -20 ... +70 [-4 ... +158] |
| Storage temperature range | °C [°F] | -50 ... +70 [-58 ... +158] |
| Cable length | m | 1.5 |
| Weight (transducer without cable) | g | 20 |

Accessories:

For usage as clamp-type strain transducer consisting of:

DD1/ZA
DD1/ZV11

For usage as clamp-type strain transducer with quick clamp consisting of:

DD1 (1 additional piece, 2 pieces needed)
DD1/ZV11 (1 additional piece, 2 pieces needed)
DD1/ZA (1 additional piece, 2 pieces needed)
DD1/ZE (1 piece)

Modifications reserved.

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