

DD1

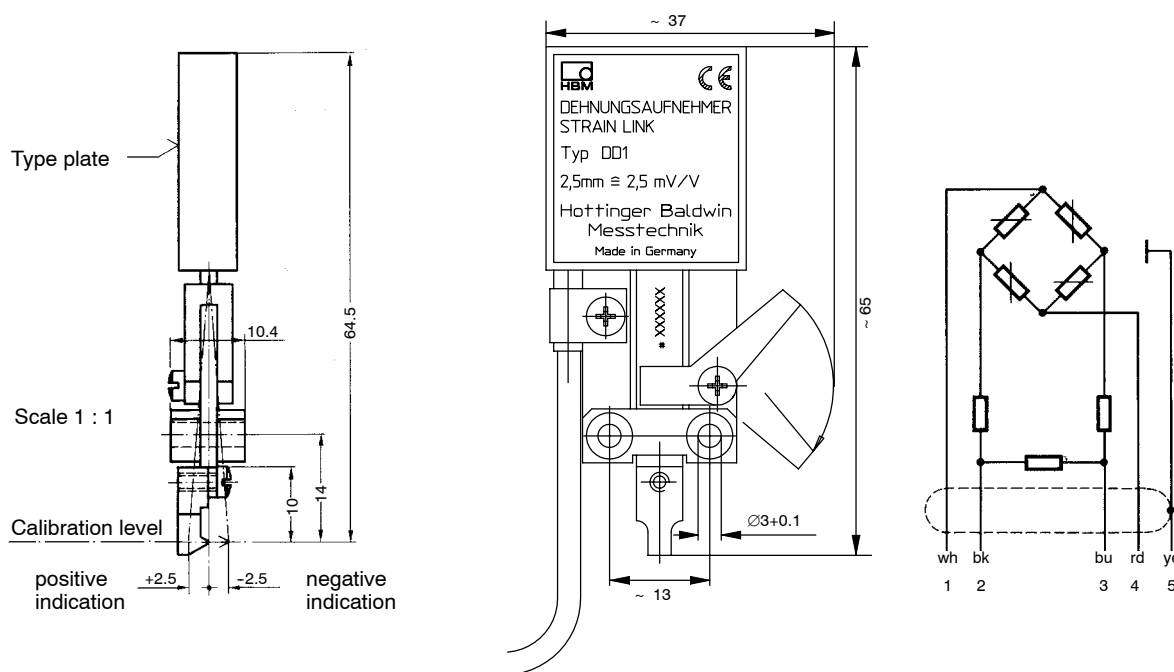
Strain Transducer



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)	%	± 0.1
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)

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Hottinger Baldwin Messtechnik GmbH

Postfach 10 01 51, D-64201 Darmstadt
Im Tiefen See 45, D-64293 Darmstadt
Tel.: +49/61 51/ 8 03-0; Fax: +49/61 51/ 8039100
E-mail: support@hbm.com www.hbm.com



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