

W1ELA/0

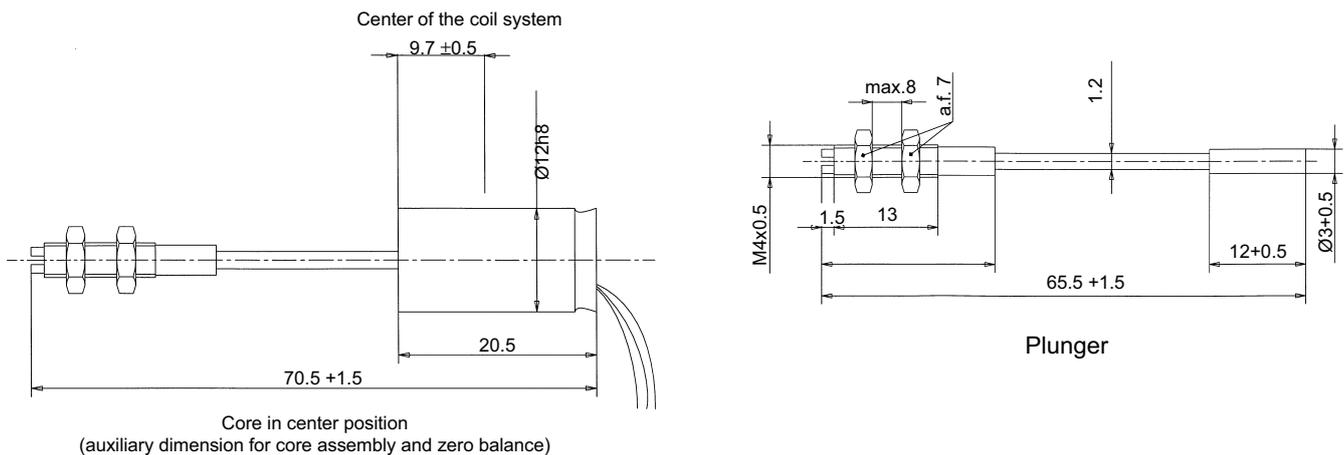
Inductive displacement sensor



Special features

- Wear-free, inductive measurement principle
- Design reduced to a minimum
- Open construction; no housing
- Loose plunger
- Continuous plunger channel protection as protection against excess stroke
- Interchangeability error <1 %
- Addition and subtraction possible with parallel and antiparallel circuit

Dimensions in mm (1 mm = 0.03937 inches)



Dimensional variation per DIN 7168-coarse

Specifications

Transducer type		W1ELA/0
Accuracy class	-	0.2
Nominal (rated) displacement (nominal measuring span)	mm	±1 (2)
Rated output (nominal) - (nominal (rated) output signal with nominal (rated) displacement and unloaded output)	mV/V	±80
Nominal (rated) output span	mV/V	160
Rated output tolerance (deviation of the rated output from the rated output (nominal))	%	±1
Linearity deviation (relative to the nominal (rated) output signal span)	%	±0.2
Nominal (rated) temperature range	°C	-55 ... +130
Operating temperature range	°C	-200 ... +130
Temperature effect in the nominal (rated) temperature range on the zero signal, relative to the nominal (rated) output span per 10 K	%	±0.2
on the nominal (rated) output span, relative to the actual value per 10 K	%	±0.2
Nominal (rated) voltage	V _{rms}	2.5 ±5%
Operating range of the excitation voltage	V _{rms}	1 ... 6
Carrier frequency	kHz	4.8
Length of stranded wire, approx.	mm	235
Weight of transducer, approx.	g	11
of plunger, approx.	g	3
Allowable acceleration of the transducer	m/s ²	500
of the plunger	m/s ²	1000
Equipment protection level (conforms with EN 60529)	-	IP 20

Ordering number

1-W1ELA/0-2

Accessories (to be ordered separately)

Displacement transducer mounting kit; mounting block set for HBM displacement transducer with 12 mm clamping diameter; for 3 assembly options (ordering no.: 1-WS/ZB12)

Subject to modifications.
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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