

# W1ELA/0

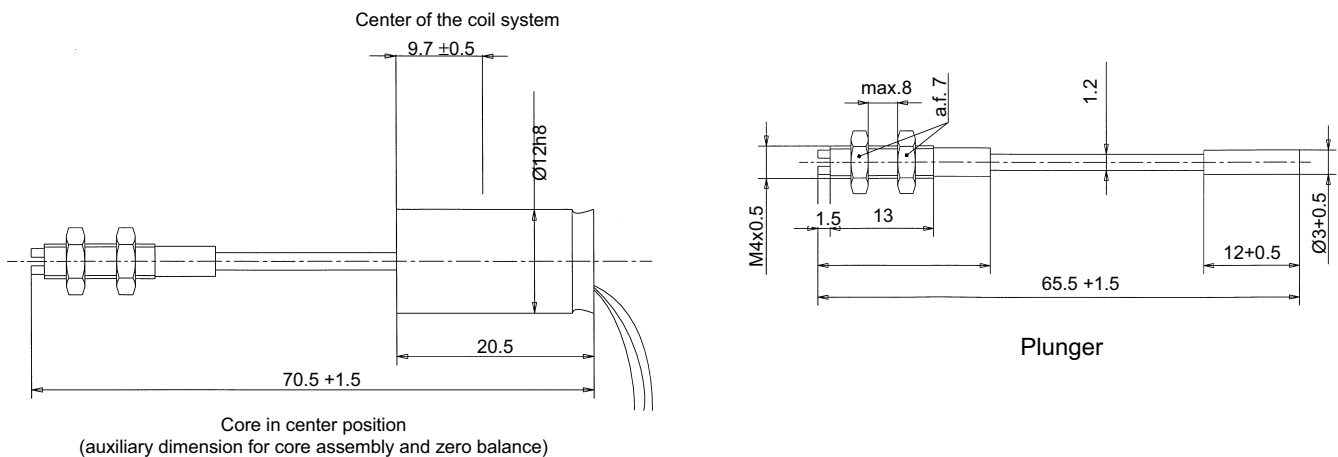
## Inductive displacement sensor



### 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

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

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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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