

# Series LVDT-IZAL

## Inductive Displacement Sensor

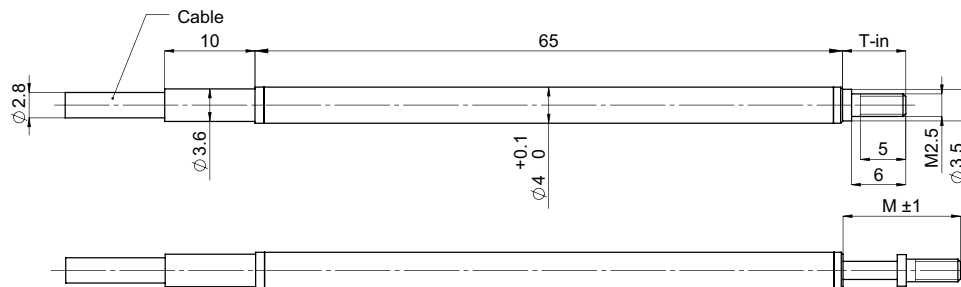


 Housing  $\varnothing 4$       Output sensor: mV/V

The displacement sensors operate according to the principle of the differential transformer.

- Measuring range: 2mm up to 10mm
- Protection degree IP65
- Housing diameter 4mm

### Drawing



Standard types				Dimensions (mm)	
Type	Amature	Displacement	Connection	T-in Spring return inner position	M Middle of stroke
IZAL-2-K	Unguided armature	$\pm 1$ (2mm)	Cable	7	13
IZAL-5-K		$\pm 2.5$ (5mm)		7	13
IZAL-10-K		$\pm 5$ (10mm)		7	13

Series LVDT-IZAL  
Inductive Displacement Sensor

Electrical Specification				
Displacement	±1 (2)	±2.5 (5)	±5 (10)	[mm]
Sensitivity	130	105	60	[mV/V/mm]
Linearity deviation	< ±0.5 (< ±0.25 optional)			[% F.S.]
Excitation voltage	3			[V RMS]
Excitation frequency	40			[kHz]
Input resistance typ.	120			[Ohm]
Input impedance typ.	610			[Ohm]
Output impedance typ.	520			[Ohm]
Temperature coefficient	±0.2			[% F.S./10K]
Calibrated at	3V RMS / 40 kHz RL = 1MΩ			

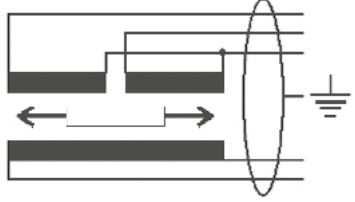
Mechanical Specification		
Housing material	Steel nickeling plated	
Core material	Nickel-Iron-Alloy / Ferrite	
Weight core	1.5	[g]

Environments		
Rated temperature range	-25..+85	[°C]
Storage temperature range	-40..+85	[°C]
Degree of protection	IP65	
Impact resistance	200 g/2ms	DIN IEC68T2-27
Vibration resistance	10g / 2 Hz .. 2 kHz	DIN IEC68T2-6

# Series LVDT-IZAL

Inductive Displacement Sensor

Connection (Cable 1m)	
Function	Color of cable
Primary 1	white
Primary 2	brown
Secondary 1	yellow
Secondary 2	green
Secondary 1, 2 Center	grey
Shield	Housing



Order code		
Series	Stroke	Lin.-Tolerance*
IZAL-	5-	
Standard	2 = $\pm 1$ 5 = $\pm 2.5$ 10 = $\pm 5$	*in case of $< \pm 0.25\%$
Options	Other on request	$\pm 0.25\%$

Accessories		
<p>Signal Conditioner DIN Rail Mount IMA2-LVDT</p> 	<p>Signal Conditioner Circuit Board Mount IVM-LVDT</p> 	<p>Signal Conditioner IP65 IMK-LVDT</p> 