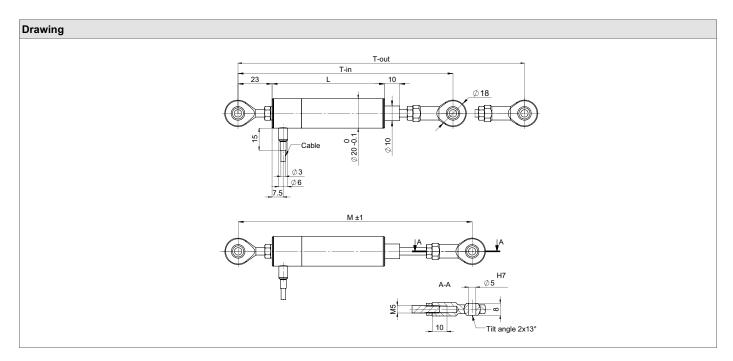
Inductive Displacement Sensor





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

- For rough environment
- Displacement: 2mm up to 200mm
- Degree of protection IP65 (optional IP67, IP68)
- Housing diameter 20mm



Standard types				Dimensions (mm)			
				L	T-in	M	T-out
Туре	Armature	Displacement	Connection	Housing length	Armature inner position	Middle of stroke	Armature outer position
ISAG-2-K		±1 (2mm)		62	138	148	157
ISAG-5-K		±2.5 (5mm)		62	138	148	157
ISAG-10-K		±5 (10mm)		76	145	158	171
ISAG-20-K	Plain Bearing	±10 (20mm)	Cable	115	179	194	210
ISAG-50-K		±25 (50mm)		160	225	255	285
ISAG-100-K		±50 (100mm)		295	359	418	490
ISAG-200-K		±100 (200mm)		465	545	653	760

Series LVDT-ISAG



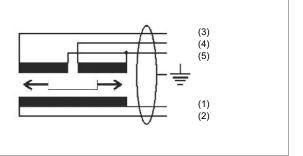


Electrical Specification								
Displacement	±1 (2)	±2.5 (5)	±5 (10)	±10 (20)	±25 (50)	±50 (100)	±100 (200)	[mm]
Sensitivity typ.	76	82	43	34	27	12.2	7	[mV/V/mm]
Linearity deviation		< ±0.5 (< ±0.25 optional)						[% F.S.]
Excitation voltage		110						[V RMS]
Excitation frequency		0.55					[kHz]	
Input resistance typ.	332	69	97	175	221	On request	On request	[Ohm]
Input impedance typ.	790	134	188	345	369	On request	On request	[Ohm]
Output impedance typ.	900	170	118	360	525	On request	On request	[Ohm]
Temperature coefficient	±0.2					[% F.S./10K]		
Calibrated at	5V RMS / 2.5 kHz RL=1MOhm							

Mechanical Specification						
Housing material	Ste					
Core material	1					
Weight (with Cable)	140	165	180	230	290	[9]

Environments					
Rated temperature range	-35 +120	[°C]			
Storage temperature range	-55 +120	[°C]			
Degree of protection	IP65 (optional IP67, IP68)				
Impact resistance	200g, 2ms	DIN IEC68T2-27			
Vibration resistance	10g / 2 Hz 2 kHz	DIN IEC68T2-6			

Connection					
Function	Color of cable (Cable length: 1m)				
Primary 1	red				
Primary 2	black				
Secondary 1	orange				
Secondary 2	yellow				
Secondary 1, 2 Center	white				
Shield	Housing				



Series LVDT-ISAG

Inductive Displacement Sensor



Order code					
Series	Stroke	Connection	LinTolerance*		
ISAG-	20-	K-			
Standard	$2 = \pm 1$ $5 = \pm 2.5$ $10 = \pm 5$ $20 = \pm 10$ $50 = \pm 25$ $100 = \pm 50$ $200 = \pm 100$	K = Cable (1meter)	*in case of < ±0.5%		
Options	Other on request	Length K2 = Length 2m	±0.25% ±0.1%		

Mechanical Accessories						
Mounting block for Ø 20 mm	Mounting flange for Ø 20 mm	Extension for armature	Measuring pin			



Note

The following applies to the 100mm and 200mm displacement versions:

For horizontal installation, the sensor housing must be additionally stabilized and axial alignment must be ensured. Otherwise the sensor could bend from its own weight! Use of 3 mounting blocks is recommended.