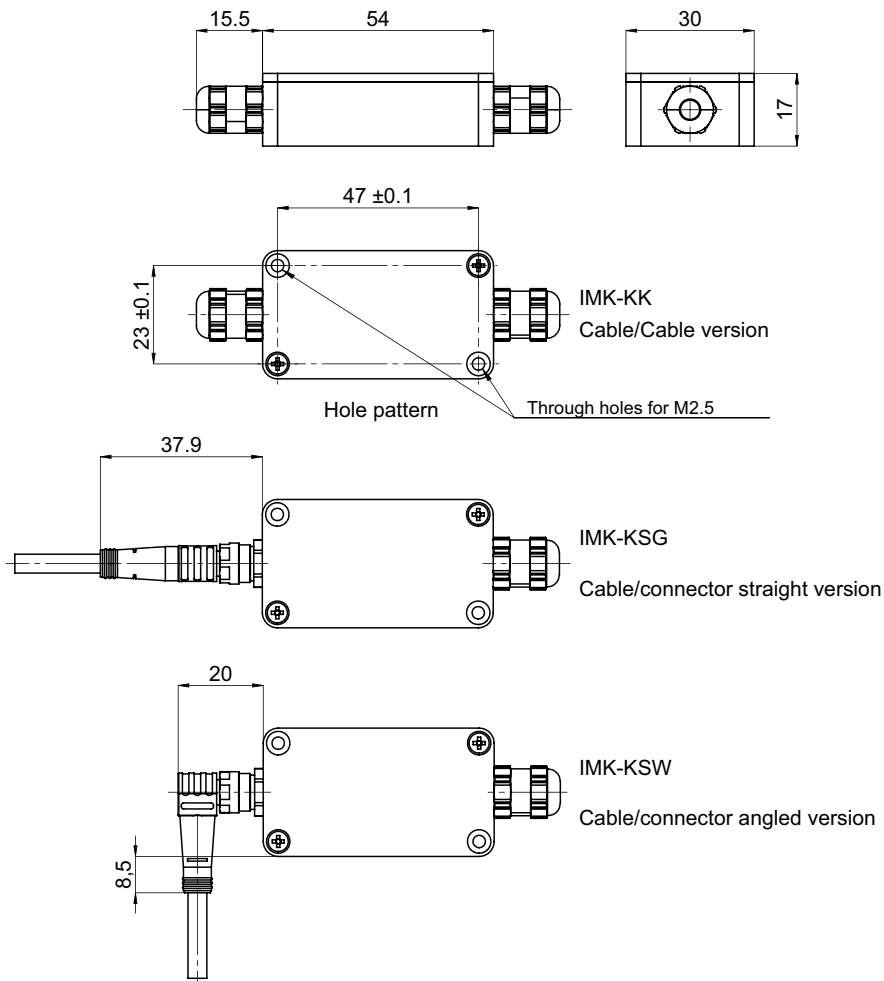




Signal conditioner module for converting the output signals of inductive sensors into standard analog signals

- For all LVDT sensors
- Temp. coefficient <0.2% F.S./10K
- Misc. output signals
- Individual designs

**Drawing (mm)**



Technical Specification		
Supply voltage	24 ±10%	[VDC]
Current consumption (without load)	<150	[mA]
Excitation voltage	1, 2, 5	[V <sub>RMS</sub> ]
Sensitivity	500 / 1000 / 2000	[mV <sub>RMS</sub> ]
Excitation frequency	2.5 .. 20	[kHz]
Setting range offset	<±10	[%]
Setting range amplification	<±10	[%]
Output signal	±5V / ±10V / 0-5V / 0-10V / 0-20mA / 4-20mA	
Noise / residual ripple	< 5 (DC .. 20MHz)	[mV <sub>RMS</sub> ]
Linearity tolerance	< ±0.01	[%F.S.]
Temperature coefficient sensitivity	< ±0.2	[%F.S./10K]
Temperature coefficient zero point	< ±0.1	[%F.S./10K]
Limit frequency / Output (3db)	1000	[Hz]
Isolation resistance	1 G bei 500 VDC 1 G at 500 VDC	[Ohm]
Isolation	500 (Supply/Output)	[VDC]

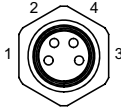
Mechanical Specification		
Housing / Mounting	Anodized Aluminum	
Weight	~ 8	[g]
Protection degree	IP65	

Environments		
Service temperature	-25 .. +85	[°C]
Storage temperature	-25 .. +85	[°C]

**Series IMK-LVDT**  
Signal Conditioner

Connection (Cable length 2 meter) (LIYCY 5x0.14)		
For cable connection	For plug connection	
Color of cable	PIN	Function
brown	1	Supply voltage 24VDC
green	2	Signal output
yellow	3	Excitation GND
white	4	Signal GND
Housing	Shield	Shield

M8 Male  
Pins



Order code						
Type	Supply voltage	Output Signal	Excitation voltage	Excitation frequency	LVDT-Sensitivity	Cable Output Configuration
IMK-LVDT	-24	-10	-12	-50	-500	-KK
IMK-LVDT	24 ±10% VDC	05 = 0 .. 5 VDC 10 = 0..10 VDC 11 = ± 10 VDC 55 = ± 5 VDC 20 = 0 .. 20 mA 42 = 4..20 mA	10 = 1.0 V <sub>RMS</sub> 20 = 2.0 V <sub>RMS</sub> 30 = 3.0 V <sub>RMS</sub>	25 = 2.5 kHz 50 = 5.0 kHz 10 = 10.0 kHz	500 = 500 mV <sub>RMS</sub> 1000 = 1.000 mV <sub>RMS</sub> 1900 = 1.900 mV <sub>RMS</sub>	KK = Cable / Cable KSG = Cable + straight connection cable KSW = Cable + angled connection cable KS = Cable + plug

Signal conditioner module for LVDT sensors with 2.5 to 10 kHz excitation frequency.

The IMK-LVDT module contains the complete amplifier electronics for an LVDT sensor. The most important standardized analog signals are optionally available at the output. The entire electronics are encased in an aluminium housing.

The power supply is 24 VDC. The user can adjust gain and offset via trimming potentiometers inside. All inputs/outputs are protected against ESD and overvoltage (up to 40V).

Subject to change without prior notice.