

# Series LVDT-IGDT

Displacement Sensor, integrated signal conditioner

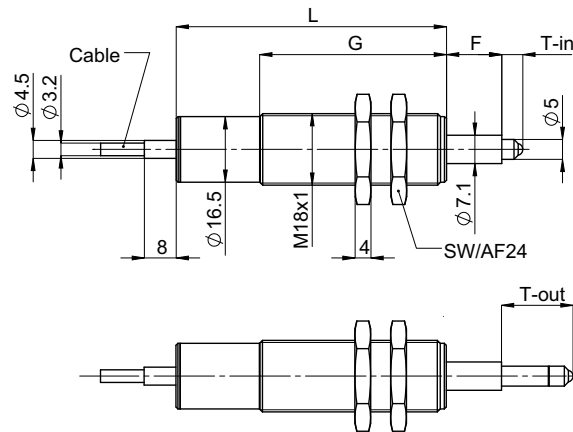
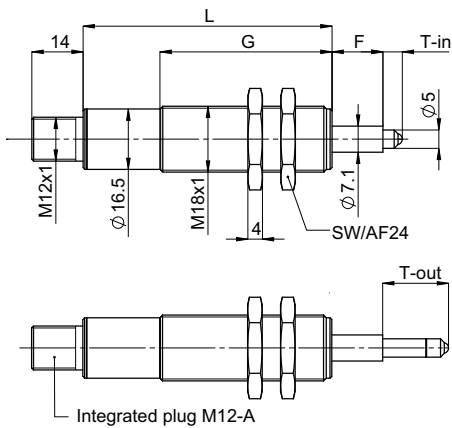
 Housing M18
  Spring Return
  Output



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

- Housing M18
- Displacement: 5mm up to 20mm
- Degree of protection IP65 (optional IP67, IP68)
- Spring return
- Voltage / current output

## Drawing



Standard types				Dimensions [mm]				
Type	Armature	Displacement	Connection	L Housing length	G Thread length	F Flange length	T-in Arm inner position	T-out Arm outer position
IGDT-2-S-XX	Spring return	±1 (2mm)	Connector	68	47	14	5.5	10
IGDT-5-S-XX		±2.5 (5mm)		68	47	14	5.5	13
IGDT-10-S-XX		±5 (10mm)		68	47	14	5.5	18
IGDT-20-S-XX		±10 (20mm)		98	77	26.5	5.5	28
IGDT-2-K-XX	Spring return	±1 (2mm)	Cable (1m)	68	47	14	5.5	10
IGDT-5-K-XX		±2.5 (5mm)		68	47	14	5.5	13
IGDT-10-K-XX		±5 (10mm)		68	47	14	5.5	18
IGDT-20-K-XX		±10 (20mm)		98	77	26.5	5.5	28

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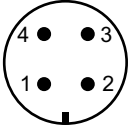
Electrical Specification					
Displacement	±1 (2)	±2.5 (5)	±5 (10)	±10 (20)	[mm]
Linearity deviation	< ±0.5 (optional < ±0.25)				[% F.S.]
Supply voltage	24 (±20%)				[VDC]
Current consumption (not load)	< 20				[mA]
Output signal	0..5 VDC / 0..10 VDC / ±5 VDC 0..20 mA / 4..20 mA				
Output load	>10 kOhm voltage output / <500 Ohm current output				
Output noise (Ripple)	<5				[mV RMS]
Cut of frequency (-3 dB)	1k				[Hz]
Temperature coefficient	< ±0.4				[% F.S./10K]

Mechanical Specification		
Housing material	steel blue zinc-plated	
Core material	Nickel-iron-alloy	
Weight (with Plug)	ca. 110	[g]
Weight core	ca. 1.5	[g]

Environments		
Rated temperature range	-25..+85	[°C]
Storage temperature range	-40..+85	[°C]
Degree of protection	IP65 (optional IP67, IP68)	
Impact resistance	200 g, 2ms	
Vibration resistance	10g / 2 Hz .. 2 kHz	

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Electrical Connection			M12 Connector
Cable 1m (wire color)	Connector	Connection	
brown	PIN 1	+24 VDC	
green	PIN 2	Output	
grey	PIN 3	Excitation GND	
white	PIN 4	Signal GND	
Shield	Housing	Housing	

Order Code						
Series	Electronics	Operation	Displacement	Connection	Supply voltage	Output signal
IG = external thread M18	D = DC	T = Spring Function	2 = 2 mm 5 = 5 mm 10 = 10 mm 20 = 20 mm	S = Connector	24 = 24 VDC	05 = 0..5 VDC 10 = 0..10 VDC 11 = ±10 VDC 20 = 0..20 mA 42 = 4..20 mA 55 = ±5 VDC
Options			Other on request	K = Cable (1m)		

Accessories			
Connector with cable	Signal Conditioner DIN Rail Mount IMA2-LVDT	Signal Conditioner IP65 IMK-LVDT	
			