INDUCTIVE SENSOR LVIT

Links to further documents for this series:
Installation guide

LVIT SERIES

Key-Features:
- *Sensor with integrated electronics*
- *Spring loaded rod, protected against falling out*
- *Housing with outer thread M12*
- *Measurement ranges up to 20 mm*
- *Linearity up to ±0.35 %*
- *Analog output: 0...10 V*
- *Protection class up to IP65*
- *Temperature range -25...+85 °C*

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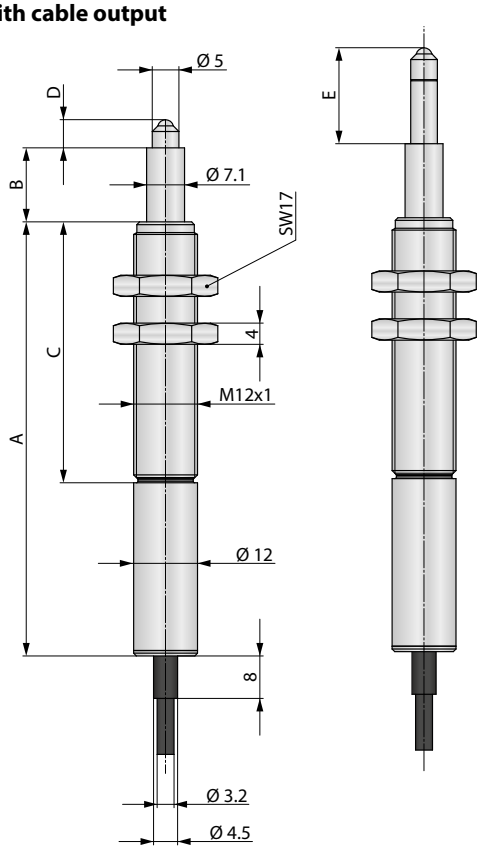
TECHNICAL DATA

Measurement range	[mm]	2	5	10	20
Linearity	[% F.S.]	<±0.5 / optional: <±0.35			
Output		0...10 V			
Supply	[VDC]	24 ±20 %			
Current consumption (no load)	[mA]	<20			
Load resistance	[kΩ]	>10			
Noise	[mV_{RMS}]	<5			
Cut-off frequency (-3 dB)	[kHz]	1			
Connection		cable output, axial, 4 poles (standard length 1 m) or connector output, axial, M12, 4 pins			
Protection class		IP65			
Operating temperature	[°C]	-25...+85			
Storage temperature	[°C]	-40...+85			
Temperature coefficient	[% F.S./K]	±0.04			
Shock resistance		200 g, 2 ms			
Vibration resistance		10 g, 2...2000 Hz			
Housing		stainless steel			
Core		nickel iron alloy			
Weight (with connector)	[g]	approx. 110			

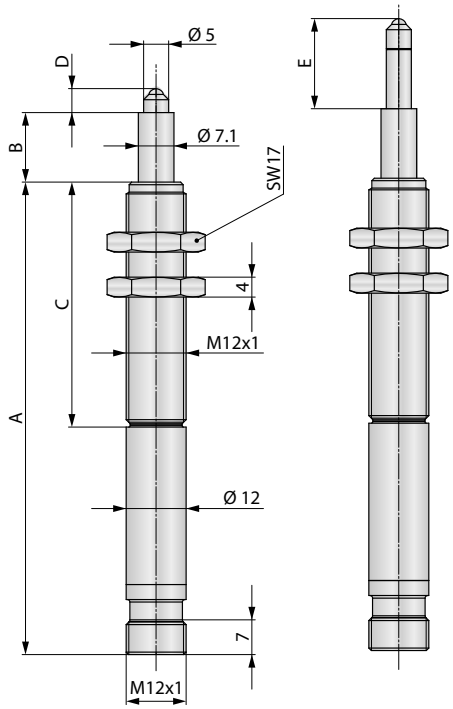
TECHNICAL DRAWING

Version with cable output



Measurement range		2	5	10	20
Housing length	A	56.5	70.5	81.5	111.5
Flange length	B		14		26.5
Thread length	C	24	38	49	78.5
Rod inner position	D		5.5		2.5
Rod outer position	E	10	12	18	25.5

Version with connector output

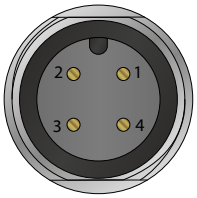


Measurement range		2	5	10	20
Housing length	A	69.5	83.5	94.5	124.5
Flange length	B		14		26.5
Thread length	C	24	38	49	78.5
Rod inner position	D		5.5		2.5
Rod outer position	E	10	12	18	25.5

ELECTRICAL CONNECTION

Function	Cable output	Connector output	Connection cable K4P...
+24 VDC	BN	Pin 1	BN
Signal	GN	Pin 2	WH
GND_{supply}	GY	Pin 3	BU
GND_{signal}	WH	Pin 4	BK
shield	shield	housing	shield

connector M12, male



ORDER CODE

LVIT – □ – □ – □ – □

Measurement range [mm] 2 / 5 / 10 / 20	
Output Voltage 0...10 V	10V

- L35	**Options** Standard sensor without options Improved linearity ±0.35 %
SA12 KA_ _	**Connection** Connector output M12, axial Cable output, axial [1]

[1] Length in m (min. 1 m).
Example: KA01 = 1 m (standard), KA02 = 2 m

ACCESSORIES

Cable with connector (female) M12, 4 poles, shielded	
K4P2M-S-M12	2 m, straight connector
K4P5M-S-M12	5 m, straight connector
K4P10M-S-M12	10 m, straight connector
K4P2M-SW-M12	2 m, angular connector
K4P5M-SW-M12	5 m, angular connector
K4P10M-SW-M12	10 m, angular connector

Mating connector M12 (female), 5 poles, shielded, for self assembly	
D4-G-M12-S	connector straight
D4-W-M12-S	connector angular

Subject to change without prior notice.

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