# **INDUCTIVE SENSOR**



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# Series ISIP

#### **Key-Features:**

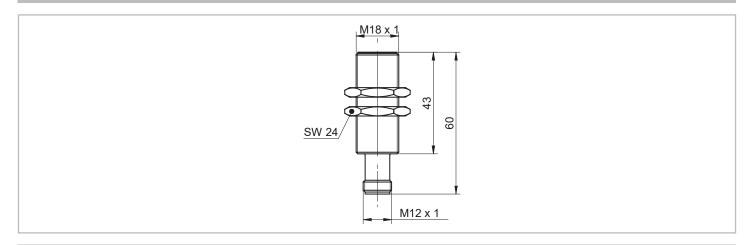
- Measurement range 0...7 mm
- Analog Output: 4...20mA
- Linearity ±0.35 mm
- Resolution of 0.005 mm
- Temperature range: -40...+70 °C
- Protection class up to IP69K
- Stainless steel housing
- Cylindrical housing with outer thread
- Measurement on metallic objects



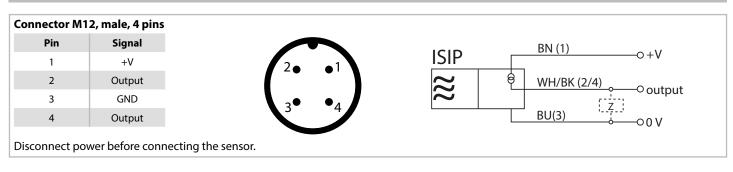
## TECHNICAL DATA

Measurement range	[mm]	07
Linearity	[mm]	±0.35
Resolution	[mm]	static: < 0.005, dynamic: < 0.01
Repeatability	[mm]	< 0.015
Response time	[ms]	<2
Output signal	[mA]	420
Power supply	[VDC]	1530
Current consumption max. (without load)	[mA]	40
Load resistance	[Ω]	3301000
Short circuit protection		yes
Reverse polarity protection		yes
Protection class		IP68 / IP69K
Operating temperature	[°C]	-40+70
Cleaning temperature	[°C]	+70+85 (30 min / day)
Temperature drift max.	[%]	±10
Vibration resistance		EN 61373:2010 (category 3), 5 h per axis (14.4 gRMS, 10500 Hz, EN 60068-2-64)
Shock resistance		EN 61373:2010 (category 3), 10 bumps per axis (100 g, 6 ms, EN 60068-2-27)
Optimal mounting		quasi-flush
Material		housing: stainless steel 1.4404 (V4A), sensing face: LCP
Connection		connector M12, 4 pins
Tightening torque max.	[Nm]	55

## TECHNICAL DRAWING

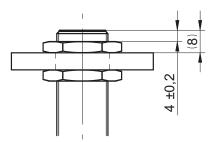


# **ELECTRICAL CONNECTION**



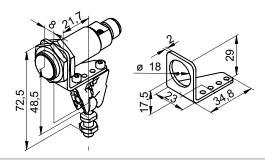
### **MOUNTING OF THE SENSOR**

#### Recommended setup for optimal measurement results



An installation that deviates from this recommendation can considerably influence the measurement results.

#### Mounting set ISMZ-M18



#### MODELS

ISIP-7-M18-420A-SA12 range 0...7 mm, output 4...20 mA

#### **ACCESSORIES**

#### Cable with connector (female) M12, 4 poles, shielded

K4P2M-S-M12
 K4P5M-S-M12
 M, straight connector
 K4P10M-S-M12
 m, straight connector
 m, straight connector

# Outdoor cable with connector (female) M12, 4 poles, shielded, IP65/IP67/IP68/IP69K

K4P10M-F-PEX-M12 10 m, straight connector

#### Mounting set (clamps, ball pivot, mounting panel)

ISMZ-M18 Mounting set for sensors with M18 thread

#### Cable with connector (female) M12, 4 poles, shielded

K4P2M-SW-M122 m, angular connectorK4P5M-SW-M125 m, angular connectorK4P10M-SW-M1210 m, angular connector

#### Digital displays

WAY-AX-S 2 channel, power supply 18...30 VDC
WAY-AX-S-AC 2 channel, power supply 115...230 VAC

For more information and options please refer to the  $\underline{\text{WAY-AX data sheet}}.$ 

Subject to change without prior notice.

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