



AI404 Inductive sensor with IO-Link IP69K

Order by 2 pm - Shipping on the same working day

41,91 € offline price 44,35 €

Incl. 5.5% online discount for online orders

Overview

- **IO-Link significantly expands the range of sensor functions** Definition of limit values, including warning signal when defined values are exceeded/undercut; can be parameterised as normally open/ normally closed, PNP/NPN switching and as a measuring system with a variably settable switching output
- **reliable transmission of the distance & smallest distance changes as a linearised process value via IO-Link**
- **Settable switch point 2.4...12.1 mm; non-flush mountable**
- **Programmable normally open/ normally closed**
- **Protection rating IP65/ IP66/ IP67/ IP68/ IP69k; excellent temperature stability**

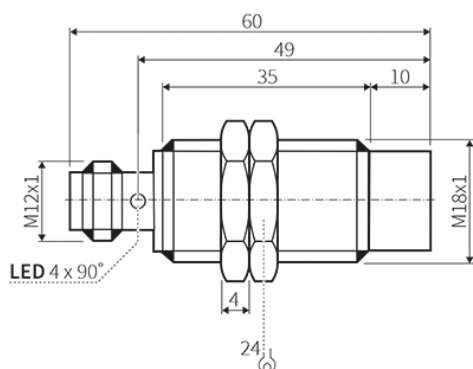
In daily use - proven millions of times over. Products from autosens are under highest quality requirements regarding robustness, insensitivity and reliability.

We offer 5 years warranty - with money-back guarantee!

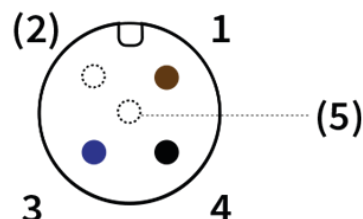
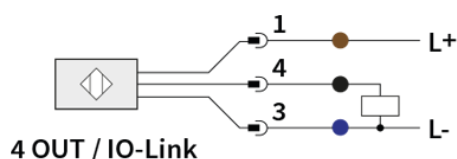
www.autosens.com/AI404

Direct link to the article on autosens.com

Dimensional drawing



Connection & pin assignment



General information

Switch point IO-Link	2.4 ... 12.1 mm
Measuring range	1.3 ... 13 mm*
Parametrisation options	In combination with autosen:io (AD002) parametrisation of sensors with IO-Link interface
Sensor type	Inductive sensor
Switching frequency	300Hz
Switching distance	12.1 mm
Comment	*The Measuring range can be output as linearized process value via IO-Link

Outputs / inputs

Switching output	Normally open / Normally closed programmable*
Comment Switching output	Factory setting: normally open Normally open/ normally closed parameterisable via IO-Link
IO-Link	Yes

Electrical data

Operating voltage	10 ... 30 V DC
Voltage type	Direct voltage (DC)
Electrical design	PNP NPN* *IO-Link parameterisation
Current carrying capacity max.	100mA
Voltage drop max.	2.5V
Current consumption max.	10mA
Protection class	III
Short-circuit protection	Yes
Overload-proof	Yes
Reverse polarity protection	Yes

Mechanical data

Structural shape	Cylindrical with thread
Thread size	M18x1
Installation type	Not flush
Structural length	60 mm
Material of housing	Brass coated with white bronze
Material of active surface	PBT
Electrical connection	M12 3-pin Contacts gold-plated



Accuracy

Correction factors	St37 = 1 V2A approx. 0.7 Ms approx. 0.5 Al approx. 0.5 Cu approx. 0.4
Hysteresis	3 ... 15 % of the real switching distance Sr

Ambient conditions

Ambient temperature min.	-40°C
Ambient temperature max.	85°C
Protection rating	IP65 IP66 IP67 IP68 IP69k

Additional information

MTTF	664years
Function display	Switching status: LED, yellow
Accessories included with delivery	2 fastening nuts
EMC test	DIN EN 55011: Class B DIN EN 61000-4-2 ESD DIN EN 61000-4-3 HF radiated DIN EN 61000-4-4 burst DIN EN 61000-4-6 HF grid-bound
Shock resistance test	DIN EN 60068-2-27 Ea
Long-term shock resistance test	EN 60068-2-29 Eb
Rapid temperature change test	EN 60068-2-14 Na
Vibration resistance test	DIN EN 60068-2-6 Fc
Approval	CE cULus



Accessories: Mounting bracket M18



AA903
M18 angle bracket

Unit price: 3,33 €*

Accessories: IO-Link



AD002
autosen.io

Unit price: 116,47 €*



AD001
IO-Link Master

Unit price: 274,64 €*



ADS01
IO-Link starter kit

Unit price: 299,00 €*



AD009
IO-Link IoT-Master

Unit price: 407,49 €*

Accessories: Switching amplifier / evaluation



AN001
One-channel switching amplifier

Unit price: 80,86 €*



AR003
Speed monitor

Unit price: 139,23 €*

Accessories: M12/M12 connection cable | 4-pol. | PUR | IP67



AA209
Connection cable M12/M12 4P
PUR 2m IP67

Unit price: 9,29 €*



AA211
Connection cable M12/M12 4P
PUR 2m IP67

Unit price: 10,71 €*



AA210
Connection cable M12/M12 4P
PUR 5m IP67

Unit price: 12,44 €*



AA212
Connection cable M12/M12 4P
PUR 5m IP67

Unit price: 13,22 €*

Accessories: M12/M12 connection cable | 4-pin | PUR | IP69K



AA206
Connection cable M12/M12 4P
PUR 10m IP69K

Unit price: 25,20 €*



AA205
Connection cable M12/M12 4P
PUR 10m IP69K

Unit price: 22,15 €*



AA204
Connection cable M12/M12 4P
PUR 5m IP69K

Unit price: 20,65 €*



AA202
Connection cable M12/M12 4P
PUR 5m IP69K

Unit price: 17,28 €*



AA203
Connection cable M12/M12 4P
PUR 2m IP69K

Unit price: 17,48 €*



AA201
Connection cable M12/M12 4P
PUR 2m IP69K

Unit price: 14,11 €*

Accessories: M12 sensor cable | 4-pin | PUR | IP67



AA052
Sensor cable M12 4P PUR 2m
IP67

Unit price: 6,07 €*



AA054
Sensor cable M12 4P PUR 2m
IP67

Unit price: 6,45 €*



AA053
Sensor cable M12 4P PUR 5m
IP67

Unit price: 8,15 €*



AA055
Sensor cable M12 4P PUR 5m
IP67

Unit price: 8,65 €*

Accessories: M12 sensor cable | 4-pin | PVC | IP67

Order online at
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7/4/2025



**AA042**Sensor cable M12 4P PVC 10m
IP67**Unit price: 10,97 €*****AA041**Sensor cable M12 4P PVC 5m
IP67**Unit price: 8,22 €*****AA040**Sensor cable M12 4P PVC 2m
IP67**Unit price: 6,00 €*****AA064**Sensor cable M12 4P PVC 2m
IP67**Unit price: 4,52 €*****AA065**Sensor cable M12 4P PVC 5m
IP67**Unit price: 6,05 €*****AA039**Sensor cable M12 4P PVC 10m
IP67**Unit price: 10,58 €*****AA038**Sensor cable M12 4P PVC 5m
IP67**Unit price: 7,80 €*****AA037**Sensor cable M12 4P PVC 2m
IP67**Unit price: 5,97 €*****AA066**Sensor cable M12 4P PVC 2m
IP67**Unit price: 4,83 €*****AA067**Sensor cable M12 4P PVC 5m
IP67**Unit price: 6,43 €*****Accessories: M12 sensor cable | 4-pin | PVC | IP69K****AA025**Sensor cable M12 4P PVC 25m
IP69K**Unit price: 23,59 €*****AA024**Sensor cable M12 4P PVC 10m
IP69K**Unit price: 15,12 €*****AA023**Sensor cable M12 4P PVC 5m
IP69K**Unit price: 12,31 €*****AA031**Sensor cable M12 4P PVC 2m
IP69K**Unit price: 12,04 €*****AA027**Sensor cable M12 4P PVC 10m
IP69K**Unit price: 17,04 €*****AA026**Sensor cable M12 4P PVC 5m
IP69K**Unit price: 14,35 €*****AA032**Sensor cable M12 4P PVC 2m
IP69K**Unit price: 12,72 €*****AA028**Sensor cable M12 4P PVC 25m
IP69K**Unit price: 26,04 €*****Accessories: M12 sensor cable | 4-pin | PUR | IP69K****AA018**Sensor cable M12 4P PUR 10m
IP69K**Unit price: 15,55 €*****AA008**Sensor cable M12 4P PUR 5m
IP69K**Unit price: 12,84 €*****AA007**Sensor cable M12 4P PUR 2m
IP69K**Unit price: 11,23 €*****AA017**Sensor cable M12 4P PUR 10m
IP69K**Unit price: 13,44 €*****AA006**Sensor cable M12 4P PUR 5m
IP69K**Unit price: 10,92 €*****AA005**Sensor cable M12 4P PUR 2m
IP69K**Unit price: 9,36 €*****Accessories: M12 connector | 4-pin | plug****AA946**

Wireable connector angled M12

Unit price: 7,01 €***AA921**

Wireable connector M12

Unit price: 7,01 €***AA961**Wireable connector angled M12
IP69K**Unit price: 15,00 €*****AA959**Wireable connector straight M12
IP69K**Unit price: 15,00 €*****Order online at**
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Accessories: M12 connector | 4-pin | socket



AA947

Wireable socket angled M12

Unit price: 6,91 €*



AA939

Wireable socket M12

Unit price: 6,91 €*



AA962

Wireable socket angled M12 IP69k

Unit price: 15,00 €*



AA960

Wireable socket straight M12 IP69k

Unit price: 15,00 €*

Accessories: Passive splitter



AA501

Passive splitter 4x M12 5 m PUR

Unit price: 40,56 €*



AA503

Passive splitter 4x M12 10 m PUR

Unit price: 54,43 €*



AA502

Passive splitter 8x M12 5 m PUR

Unit price: 56,65 €*



AA504

Passive splitter 8x M12 10 m PUR

Unit price: 74,03 €*

Accessories: Y-distributor



AA046

Y-splitter cable M12/2xM12

Unit price: 18,67 €*



AA922

Y distributor M12/2xM12

Unit price: 12,27 €*

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