



AU012 Ultrasonic sensor

Order by 2 pm - Shipping on the same working day

117,88 €

offline price
124,74 €

Incl. 5.5% online discount for online orders

Overview

- Ultrasonic sensor with stainless steel housing with M18 thread
- Scalable analogue output (0...10 V)
- Adjustable via wire teach
- Detects levels and optically difficult objects (high-contrast, reflective, transparent, dark, etc.)
- Wear-free and contactless measurement, even in haze and dust

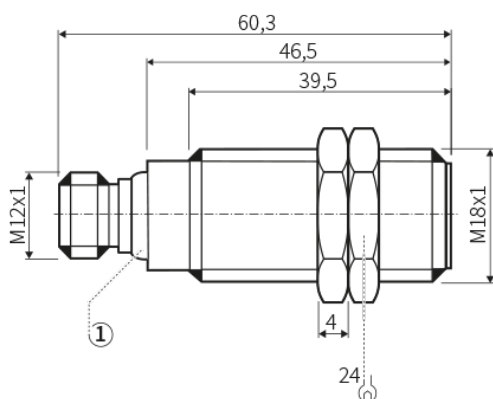
www.autosen.com/AU012

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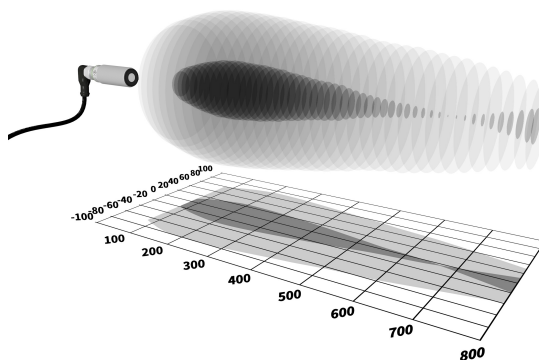
In daily use - proven millions of times over. Products from autosen are under highest quality requirements regarding robustness, insensitivity and reliability.

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

Dimensional drawing



Sound beam



Dimensional drawing legend

1: LED

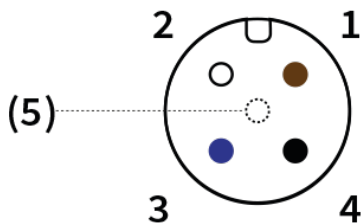
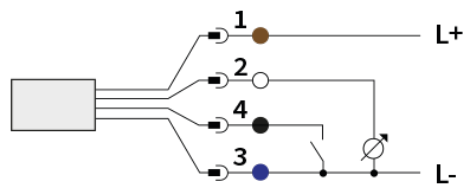
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Connection & pin assignment



Wiring & pin configuration legend

Pin 4 = Teach

General information

Sensor type	Ultrasonic sensor
Switching distance	60 ... 800 mm

Outputs / inputs

Analogue output	0 ... 10 V
	Scalable
Comment on analogue output	When used with an analog output use exclusively sensor cables without LED
IO-Link	No

Electrical data

Operating voltage	10 ... 30 V DC supply class 2 cULus
Voltage type	Direct voltage (DC)
Current carrying capacity max.	100mA
Voltage drop max.	2.2V
Current consumption max.	35mA
Protection class	III
Short-circuit protection	Yes
Overload-proof	Yes
Reverse polarity protection	Yes
Ready delay	0.3 s

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Mechanical data

Structural shape	Cylindrical with thread
Thread size	M18x1
Structural length	60,3 mm
Material of housing	V4A (1.4404)
Material of active surface	Polyamide (PA)
Electrical connection	Epoxy glass ceramic
	M12
	4-pin
	Contacts gold-plated

Accuracy

Hysteresis	< 1%
Resolution	3 mm
Max. deviation from 90° angle between sensor / object	± 4 °
Temperature compensation	Yes
Comment	The indicated values are reached after a warm-up time of min. 20 minutes

Ambient conditions

Ambient temperature min.	-20°C
Ambient temperature max.	70°C
Protection rating	IP67

Additional information

MTTF	235years
Function display	Yellow
	Green
	2 x LED
	Teach input
Accessories included with delivery	2 fastening nuts
	2 washers
Teach function	Yes
EMC test	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
	DIN EN 55011: Class A
Shock resistance test	DIN EN 60068-2-27
Vibration resistance test	DIN EN 60068-2-6 Fc
Approval	CE
	cULus
	UKCA

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Accessories: Mounting bracket M18



AA903
M18 angle bracket

Unit price: 3,33 €*

Accessories: Display for analog sensors



AG002
TFT display for sensors

Unit price: 185,07 €*



AG001
Process Display

Unit price: 92,43 €*



AD003
Display for analogue signals

Unit price: 110,36 €*



AN004
Multifunction relay for sensors

Unit price: 152,63 €*

Accessories: Sound deflection angle / sound tube



AA963
Sound deflection angle small for ultrasonic sensors

Unit price: 24,80 €*



AA965
Sound tube for ultrasonic sensors

Unit price: 27,83 €*

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



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

Unit price: 22,15 €*



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

Unit price: 17,28 €*



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

Unit price: 14,11 €*

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



AA042
Sensor cable M12 4P PVC 10m
IP67

Unit price: 10,97 €*



AA039
Sensor cable M12 4P PVC 10m
IP67

Unit price: 10,58 €*



AA041
Sensor cable M12 4P PVC 5m
IP67

Unit price: 8,22 €*



AA038
Sensor cable M12 4P PVC 5m
IP67

Unit price: 7,80 €*



AA040
Sensor cable M12 4P PVC 2m
IP67

Unit price: 6,00 €*



AA037
Sensor cable M12 4P PVC 2m
IP67

Unit price: 5,97 €*



AA064
Sensor cable M12 4P PVC 2m
IP67

Unit price: 4,52 €*



AA066
Sensor cable M12 4P PVC 2m
IP67

Unit price: 4,83 €*

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**AA065**Sensor cable M12 4P PVC 5m
IP67**Unit price: 6,05 €*** **AA067**Sensor cable M12 4P PVC 5m
IP67**Unit price: 6,43 €*** **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 | 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 €*** **Accessories: M12 sensor cable | 4-pin | PUR | IP69K****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 €*** **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 €*** **Order online at**
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