



A0012 Through-beam sensor M12x1 metal thread

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77,47 € offline price 81,98 €

Incl. 5.5% online discount for online orders

Overview

- Through beam sensor (receiver, transmitter: A0012) with metal housing (brass, white bronze plated), M12 thread and M12 connector (4-pin)
- Sensing range 4 m
- high detection range due to two separate components
- Insensitive to dust, steam and lens contamination
- Protection rating IP65

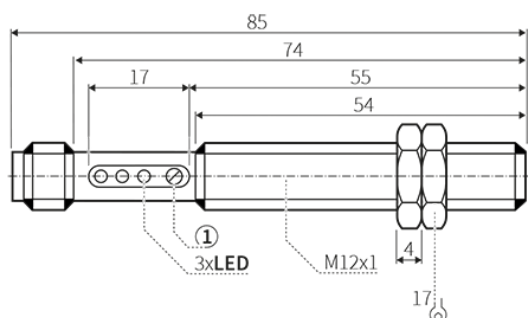
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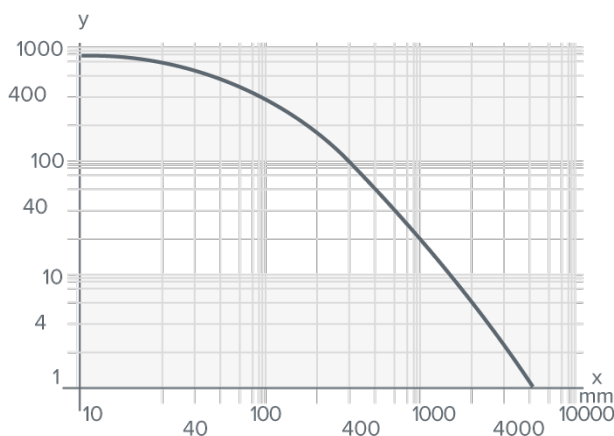
www.autosens.com/A0012

Direct link to the article on autosens.com

Dimensional drawing



Function reserve bend



Dimensional drawing legend

1: Potentiometer for sensitivity setting

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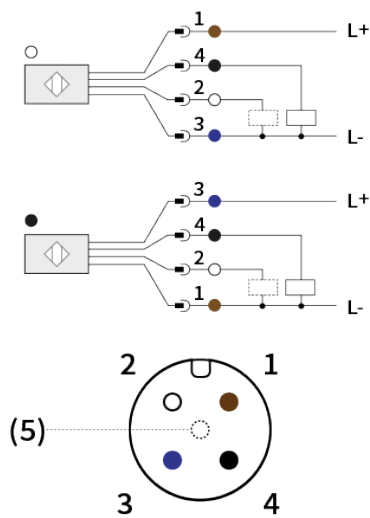
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Function reserve bend legend

x - distance [mm]
y - excess gain factor

Connection & pin assignment



Wiring & pin configuration legend

Pin 2 = function check output

General information

Sensor type	Receiver
Switching frequency	320Hz
Type of light	Infrared light
Switching distance	4 m

Outputs / inputs

Switching output	Light/dark switching programmable
IO-Link	No

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Electrical data

Current carrying capacity of function control output	10mA
Voltage drop of function control output	3.5V
Operating voltage	10 ... 36 V DC
Voltage type	Direct voltage (DC)
Electrical design	PNP
Current carrying capacity max.	200mA
Voltage drop max.	2.5V
Current consumption max.	30mA
Protection class	II
Short-circuit protection	Yes
Overload-proof	Yes
Reverse polarity protection	Yes

Mechanical data

Structural shape	Cylindrical with thread
Thread size	M12x1
Structural length	85 mm
Material of housing	Brass coated with white bronze
Electrical connection	M12 4-pin Contacts gold-plated

Ambient conditions

Ambient temperature min.	-25°C
Ambient temperature max.	60°C
Protection rating	IP65

Additional information

MTTF	607years
Function display	Switching status: LED, yellow Operation: LED, green Function: LED, red
Accessories included with delivery	2 fastening nuts
EMC test	DIN EN 60947-5-2
Approval	CE cULus



Accessories: Suitable sensors



AA011

Through-beam sensor M12x1
metal thread

Unit price: 65,83 €*

Accessories: Mounting bracket M12



AA902

M12 angle bracket

Unit price: 2,95 €*

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



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 €*

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**AA064**Sensor cable M12 4P PVC 2m
IP67**Unit price: 4,52 €*** **AA066**Sensor cable M12 4P PVC 2m
IP67**Unit price: 4,83 €*** **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 | PVC | IP69K****AA025**Sensor cable M12 4P PVC 25m
IP69K**Unit price: 23,59 €*** **AA027**Sensor cable M12 4P PVC 10m
IP69K**Unit price: 17,04 €*** **AA024**Sensor cable M12 4P PVC 10m
IP69K**Unit price: 15,12 €*** **AA026**Sensor cable M12 4P PVC 5m
IP69K**Unit price: 14,35 €*** **AA023**Sensor cable M12 4P PVC 5m
IP69K**Unit price: 12,31 €*** **AA032**Sensor cable M12 4P PVC 2m
IP69K**Unit price: 12,72 €*** **AA031**Sensor cable M12 4P PVC 2m
IP69K**Unit price: 12,04 €*** **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 €*** **AA017**Sensor cable M12 4P PUR 10m
IP69K**Unit price: 13,44 €*** **AA008**Sensor cable M12 4P PUR 5m
IP69K**Unit price: 12,84 €*** **AA006**Sensor cable M12 4P PUR 5m
IP69K**Unit price: 10,92 €*** **AA007**Sensor cable M12 4P PUR 2m
IP69K**Unit price: 11,23 €*** **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 €*** **Accessories: Passive splitter**Order online at
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**AA501**

Passive splitter 4x M12 5 m PUR

Unit price: 40,56 €* **AA502**

Passive splitter 8x M12 5 m PUR

Unit price: 56,65 €* **AA503**

Passive splitter 4x M12 10 m PUR

Unit price: 54,43 €* **AA504**

Passive splitter 8x M12 10 m PUR

Unit price: 74,03 €*

Accessories: PNP-NPN converter

**AA033**PNP-NPN converter 5 m PUR M12
BKout**Unit price: 12,84 €*** **AA034**PNP-NPN converter 5 m PUR M12
WHout**Unit price: 12,84 €***

Accessories: Y-distributor

**AA046**

Y-splitter cable M12/2xM12

Unit price: 18,67 €* **AA922**

Y distributor M12/2xM12

Unit price: 12,27 €* 