

# AF001 Binary level sensor



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**93,24 €** offline price 98,67 €

Incl. 5.5% online discount for online orders

## Overview

- For optimum level measuring with water-based coolant, oils, water and water-like media
- cannot be used with granulate materials, bulk materials, acids, alkalis or in hygienic zones and electroplating areas
- Programmable normally open/ normally closed
- Probe length 132 mm
- for media temperatures 0...35 °C (water)/ 0...65 °C (oil)

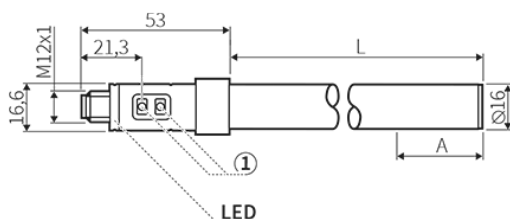
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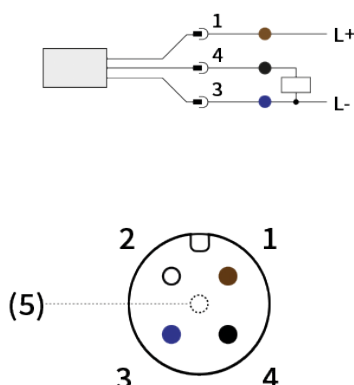
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We offer 5 years warranty - with money-back guarantee!

## Dimensional drawing



## Connection & pin assignment



## Dimensional drawing legend

1: Programming buttons

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## General information

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Range of application          | Water-based cooling lubricants, oils, water / media similar to water                        |
| Cannot be used for:           | Granulates, bulk materials, acids, alkaline solutions; hygienic and electroplating products |
| Dielectric constant of medium | > 1.8                                                                                       |
| Sensor type                   | Capacitive / Impedance                                                                      |

## Outputs / inputs

|                  |                                              |
|------------------|----------------------------------------------|
| Switching output | Normally open / Normally closed programmable |
| IO-Link          | No                                           |

## Electrical data

|                                |                     |
|--------------------------------|---------------------|
| 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.       | 22mA                |
| Protection class               | III                 |
| Short-circuit protection       | Yes                 |
| Overload-proof                 | Yes                 |
| Reverse polarity protection    | Yes                 |

## Mechanical data

|                            |                                      |
|----------------------------|--------------------------------------|
| Active range A             | 31 mm                                |
| Material of housing        | PP-GF30<br>TPE-U                     |
| Material of active surface | PP                                   |
| Electrical connection      | M12<br>3-pin<br>Contacts gold-plated |
| Probe length L             | 132 mm                               |

## Ambient conditions

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Ambient temperature min.   | -25°C                                                            |
| Ambient temperature max.   | 80°C                                                             |
| Maximum container pressure | ± 0.5 bar (when installed with assembly accessories AA923-AA925) |
| Medium temperature, water  | 0 ... 35 °C°C                                                    |
| Medium temperature, oil    | 0 ... 65 °C°C                                                    |
| Protection rating          | IP65<br>IP67                                                     |



**Additional information**

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|                                    |                         |
|------------------------------------|-------------------------|
| MTTF                               | 608years                |
| Function display                   | LED                     |
|                                    | Yellow                  |
|                                    | Green                   |
|                                    | Programming keys        |
| Accessories included with delivery | No accessories included |
| EMC test                           | DIN EN 61000-6-2        |
|                                    | DIN EN 61000-6-4        |
| Shock resistance test              | DIN EN 60068-2-29       |
| Vibration resistance test          | DIN EN 60068-2-6        |
| Approval                           | CE                      |
|                                    | cULus                   |



## Accessories: Flange plate



### AA925

Flange plate 65-80 D16

Unit price: 36,43 €\*



### AA923

Flange plate according to  
DIN24557

Unit price: 38,76 €\*

## Accessories: Mounting adapter



### AA924

Mounting adapter G3/4M D16

Unit price: 40,70 €\*

## Accessories: Switching amplifier / evaluation



### AN001

One-channel switching amplifier

Unit price: 80,86 €\*

## 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 €\*

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**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 €\*** **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 €\*** 

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**AA962**

Wireable socket angled M12 IP69k

**Unit price: 15,00 €\*** **AA960**Wireable socket straight M12  
IP69k**Unit price: 15,00 €\*** 

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**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 €\*** 

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**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 €\*** 

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**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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