



# AK

## AK1/A0-1A86

Ind.M18,2 wires DC-NO,Cable,Sch-STD

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	5mm
Operanting distance	0...4,05mm
Standard target	18x18mm FE360
Correction Factor	copper: 0,40 / aluminium: 0,48 / brass: 0,50 / stainless steel: 0,86
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

### Application

Description	M18 standard flush mount
Functions	Proximity

## Outputs

Output type	NPN/PNP
Output Function	NO
Switching frequency	300Hz

## Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	$\leq 20\text{mA}$
Load current	3...100mA
Leakage current	$\leq 0, \leq 8\text{mA}$
Output voltage drop	$\leq 2,8\text{V @}100\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow LED output state
Time delay before availability	$\leq 50\text{ms}$
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

## Mechanical data

Mounting	Shielded
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Housing Material	Nickel-plated brass
Connections	5m PVC Cable
Active Head Material	PBT
Tightening torque	25Nm
Material	Nickel-plated brass
Diameter/Dimension	M18

#### Test/Approvals

Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

#### Accessories

Supplied Accessories	2 nuts M18x1
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#### Generical Data

Dimensions	M18 x 1 / L = 50mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

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