

## INDUSTRIAL COMPONENT DATA

# AK1/AN-3AAN MICRO DETECTORS Inductive sensor M18 shielded NO/NPN cable 2m axial II 3G Ex nA IIC T5, II 3D Ex..

Brand: MICRO DETECTORS | Manufacturer Part Number: AK1/AN-3AAN



|                 |                 |
|-----------------|-----------------|
| Manufacturer    | MICRO DETECTORS |
| MPN / Reference | AK1/AN-3AAN     |
| Catalog number  | AK1/AN-3AAN     |
| Category        | Encoders        |
| Minimum order   | 1 unit          |
| Document ID     | EO-D65CF8F05B   |
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## Product Overview

AK1/AN-3AAN MICRO DETECTORS Inductive sensor M18 shielded NO/NPN cable 2m axial II 3G Ex nA IIC T5, II 3D Ex..

## STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

|              |                            |
|--------------|----------------------------|
| Catalog path | MICRO DETECTORS > Encoders |
|--------------|----------------------------|

## Additional Product Information

## Technical features

## Detection properties

Nominal sensing distance 0,6mm

Operanting distance 0...0,48mm

Standard target 4x4mm FE360

Correction Factor copper:  $0,32 \pm 10\%$  / aluminium:  $0,24 \pm 10\%$  / brass:  $0,39 \pm 10\%$  / stainless steel:  $0,57 \pm 10\%$ 

Thermal drift of Sr &lt; 10%

Repeat Accuracy 5% (UB 24V Ta=23°C  $\pm 5^{\circ}\text{C}$ )

Hysteresis 1 ... 20%

## Outputs

Output type NPN

Output Function NO

Switching frequency 3kHz

## Electrical data

Operating Voltage 10 - 30Vdc

No-Load supply current  $\leq 10\text{mA}$   
Load current  $\leq 100\text{mA}$   
Leakage current  $\leq 10\mu\text{A}$   
Output voltage drop  $\leq 1,5\text{V}$  @100mA  
Max ripple content  $\leq 10\%$   
LED indicators Yellow LED output state  
Time delay before availability  $\leq 50\text{ms}$   
Short-circuit protection Yes (auto-reset)  
Reverse Polarity Protection Yes  
Protection against inductive loads Yes  
Mechanical data  
Dimensions  $\varnothing 3 / L = 22\text{mm}$   
Mounting Shielded  
Weight 30g  
Housing Material AISI303 Stainless Steel  
Connections 2m PUR Cable  
Active Head Material PBT  
Operating temperature  $-25^{\circ}\text{C} \dots +70^{\circ}\text{C}$   
Test/Approvals  
Approvals CEUL  
EMC compatibility IEC 60947-5-2  
Shocks and vibrations Vibration IEC 60068-2-6 / Shock IEC 60068-2-27  
Degree of protection IP 67 (EN60529)  
Electrical diagrams of the connections  
Dimension (mm)  
Installation  
Response curves  
Disassamento Parallelo

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send MICRO DETECTORS / AK1/AN-3AAN with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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