

INDUSTRIAL COMPONENT DATA

AK1/AN-1A86 MICRO DETECTORS Inductive sensor M18 shielded NO/NPN cable 5m axial

Brand: MICRO DETECTORS | Manufacturer Part Number: AK1/AN-1A86



Manufacturer	MICRO DETECTORS
MPN / Reference	AK1/AN-1A86
Catalog number	AK1/AN-1A86
Category	Encoders
Minimum order	1 unit
Document ID	EO-6E0890DBD9
Generated	2026-07-31

Product Overview

AK1/AN-1A86 MICRO DETECTORS Inductive sensor M18 shielded NO/NPN cable 5m axial

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 < 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-1A86 with the required quantity to info@electricaonline.com or use 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

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.