



AK

AK1/AN-4AAN

Ind.M18,NPN-NO,Cable,Nsch-LD

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12mm
Operanting distance	0...9,7mm
Standard target	36x36mm FE360
Correction Factor	copper: 0,45 / aluminium: 0,53 / brass: 0,56 / stainless steel: 0,77
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	M18 standard no-flush mount
Functions	Proximity

Outputs

Output type	NPN
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Output Function	NO
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Switching frequency	300Hz
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Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	$\leq 20\text{mA}$
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Load current	$\leq 400\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 1\text{V @}400\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Yellow LED output state
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Time delay before availability	$\leq 50\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Impulsive Overvoltage Protection	Yes
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Protection against inductive loads	Yes
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Mechanical data

Mounting	Unshielded
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Material	Nickel-plated brass
Housing material	Nickel-plated brass
Connections	2m PVC Cable
Active Head Material	PBT
Tightening torque	25Nm
Diameter/Dimension	M18

Test/Approvals

Approvals	CE UR II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIB T85°C Dc
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

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