



AM

AM6/AN-3A87AN

Ind.M12,NPN-NO,Cable,Sch-LD

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	4mm
Operanting distance	0...3,2mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,33 / aluminium: 0,4 / brass: 0,5 / stainless steel: 1,05
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	M12 short case flush mount
Functions	Proximity

Outputs

Output type	NPN
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Output Function	NO
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Switching frequency	2kHz
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Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	$\leq 10\text{mA}$
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Load current	$\leq 200\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 1,8\text{V @}200\text{mA}$
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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	Shielded
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Material	Nickel-plated brass
Housing material	Nickel-plated brass
Connections	7m PVC Cable
Active Head Material	PBT
Tightening torque	10Nm
Diameter/Dimension	M12

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 M12x1
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Generical Data

Dimensions	M12 x 1 / L = 39,8mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

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10/08/2026
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