



AE

AE1/AP-3A86AN

Ind.M8,PNP-NO,Cable,Sch-LD

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2mm
Operanting distance	0...1,62mm
Standard target	8x8mm FE360
Correction Factor	copper: 0,35 / aluminium: 0,43 / brass: 0,52 / stainless steel: 0,78
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	M8 standard flush mount
Functions	Proximity

Outputs

Output type	PNP
-------------	-----

Output Function	NO
-----------------	----

Switching frequency	5kHz
---------------------	------

Electrical data

Operating Voltage	10...30Vdc
-------------------	------------

No-Load supply current	$\leq 10\text{mA}$
------------------------	--------------------

Load current	$\leq 200\text{mA}$
--------------	---------------------

Leakage current	$\leq 10\mu\text{A}$
-----------------	----------------------

Output voltage drop	$\leq 1,8\text{V @}200\text{mA}$
---------------------	----------------------------------

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
----------	----------

Material	Nickel-plated brass
Housing material	Nickel-plated brass
Connections	5m PVC Cable
Active Head Material	PBT
Tightening torque	3Nm
Diameter/Dimension	M8

Test/Approvals

Approvals	CE UR II 3G Ex nA IIC T5 Gc II 3D Ex tc IIIB T90°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 M8x1
----------------------	-------------

Generical Data

Dimensions	M8 x 1 / L = 45,5mm
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

07/08/2026
15:18:31