

Basic



95B061251

IS-12-A1-S2

NON-CONTACT DETECTION COST EFFECTIVE AND
RELIABLE DETECTION OF ANY METAL PART

OVERVIEW

- Standard proximity M4, M5, M8, M12, M18, M30
- Double range (i.e. M12 4mm, M18 14mm, M30 20mm)
- Unshielded or shielded models for flush mounting
- Nickel brass or stainless steel short and long housing
- Ecolab and Diversey certifications for industrial detergents
- Multi-voltage, Metal face, Weld field immune models
- NO/NC, NPN or PNP output and programmable versions.

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2mm
Operanting distance	0...1,62mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,2...0,5 / aluminium: 0,3...0,5 / brass: 0,4...0,6 / staineless steel: 0,7...0,9

Repeat Accuracy	< 3% (UB 24V Ta=23°C ±5°C)
-----------------	----------------------------

Hysteresis	< 10%
------------	-------

Application

Description	M12 standard flush mount
-------------	--------------------------

Functions	Proximity
-----------	-----------

Outputs

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

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

Switching frequency	1kHz
---------------------	------

Response time	0,5
---------------	-----

Electrical data

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

No-Load supply current	≤ 10mA
------------------------	--------

Load current	200mA
--------------	-------

Output voltage drop	≤ 1,8V @100mA
---------------------	---------------

Max ripple content	≤ 10%
--------------------	-------

LED indicators	Yellow LED output state
----------------	-------------------------

Time delay before availability	≤ 50ms
--------------------------------	--------

Short-circuit protection	Yes
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Emission	≥100kHz
----------	---------

Protection against inductive loads	Yes
------------------------------------	-----

Mechanical data

Dimensions	Ø12x67
------------	--------

Mounting	Shielded
----------	----------

Material	Nickel-plated brass
----------	---------------------

Housing material	Nickel-plated brass
------------------	---------------------

Connections	M12 Plug
-------------	----------

Active Head Material	LCP
----------------------	-----

Tightening torque	6Nm
-------------------	-----

Diameter/Dimension	M12
--------------------	-----

Test/Approvals

Approvals	CE cULus ECOLAB DIVERSEY
-----------	--------------------------

Accessories

Supplied Accessories	2 nuts M12x1
----------------------	--------------

Generical Data

Dimensions	Ø12 / L = 67mm
------------	----------------

Operating Temperature	-25°C...+70°C
-----------------------	---------------

Mechanical Protection	IP67
-----------------------	------

**Datasensing
S.r.l.**

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of
printing**
21/05/2026
04:50:12