

# Basic



**95B067240**

**IS-12-E9-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 Diversy 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	4mm
Operanting distance	0...3,24mm
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	NPN/PNP
-------------	---------

Output Function	NO/NC
-----------------	-------

Switching frequency	200Hz
---------------------	-------

Response time	2,5
---------------	-----

### Electrical data

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

No-Load supply current	< 1,6mA
------------------------	---------

Load current	> 1,6 ... 100mA
--------------	-----------------

Output voltage drop	≤ 6,5V
---------------------	--------

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

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

Time delay before availability	≤ 75ms
--------------------------------	--------

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

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

Emission	$\geq 100\text{kHz}$
----------	----------------------

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

#### Mechanical data

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

Dimensions	$\text{Ø}12 \times 67$
------------	------------------------

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

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

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

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

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

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

#### Test/Approvals

Approvals	CE cULus
-----------	----------

#### Accessories

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

#### Generical Data

Dimensions	$\text{Ø}12 / L = 67\text{mm}$
------------	--------------------------------

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**  
24/04/2026  
14:00:03