

Basic



95B061311

IS-18-A3-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	5mm
--------------------------	-----

Operanting distance	0...4,05mm
---------------------	------------

Standard target	18x18mm 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	M18 standard flush mount
-------------	--------------------------

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

Outputs

Output type	NPN
-------------	-----

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	Ø18x73
Mounting	Shielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Connections	M12 Plug
Active Head Material	LCP
Tightening torque	20Nm
Diameter/Dimension	M18

Test/Approvals

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

Accessories

Supplied Accessories	2 nuts M18x1
----------------------	--------------

Generical Data

Dimensions	Ø18 / L = 73mm
------------	----------------

Operating Temperature	-25°C...+60°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

10/08/2026
03:28:14