

# Basic



**95B067270**

**IS-18-E0-03**

**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	8mm
Operanting distance	0...6,48mm
Standard target	24x24mm 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/PNP
-------------	---------

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

Switching frequency	400Hz
---------------------	-------

Response time	1,25
---------------	------

### Electrical data

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

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

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

Output voltage drop	≤ 1,2V @100mA
---------------------	---------------

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	$\text{Ø}12 \times 70$
------------	------------------------

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

Connections	2m PVC Cable
-------------	--------------

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

Tightening torque	20Nm
-------------------	------

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

Diameter/Dimension	M18
--------------------	-----

#### Test/Approvals

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

#### Accessories

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

#### Generical Data

Dimensions	$\text{Ø}12 / L = 70\text{mm}$
------------	--------------------------------

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**  
24/11/2024  
16:07:23