

# Basic



**95B067250**

**IS-12-F0-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	8mm
Operanting distance	0...6,48mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,4...0,5 / aluminium: 0,4...0,6 / brass: 0,5...0,7 / staineless steel: 0,7...1,05

Repeat Accuracy	< 3% (UB 24V Ta=23°C ±5°C)
Hysteresis	< 10%

### Application

Description	M12 standard no-flush mount
Functions	Proximity

### Outputs

Output type	NPN/PNP
Output Function	NO/NC
Switching frequency	500Hz
Response time	1

### 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	≥100kHz
Protection against inductive loads	Yes

#### Mechanical data

Dimensions	Ø12x72
Mounting	Unshielded
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
-----------	----------

#### Accessories

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

#### Generical Data

Dimensions	Ø12 / L = 72mm
------------	----------------

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](mailto:info@datasensing.com)

**date of  
printing**

15/06/2026  
23:27:53