

# Basic



**95B067030**

**IS-12-E1-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)
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Hysteresis	< 10%
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### Application

Description	M12 standard flush mount
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Functions	Proximity
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### Outputs

Output type	PNP
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Output Function	NO
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Switching frequency	500Hz
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Response time	1
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### Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	≤ 10mA
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Load current	200mA
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Output voltage drop	≤ 1,2V @100mA
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Max ripple content	≤ 10%
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LED indicators	Yellow LED output state
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Time delay before availability	≤ 75ms
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	$\geq 100\text{kHz}$
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Protection against inductive loads	Yes
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#### Mechanical data

Mounting	Shielded
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Dimensions	$\text{Ø}12 \times 67$
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Housing Material	Nickel-plated brass
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Connections	M12 Plug
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Active Head Material	LCP
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Tightening torque	6Nm
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Material	Nickel-plated brass
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Diameter/Dimension	M12
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#### Test/Approvals

Approvals	CE cULus
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#### Accessories

Supplied Accessories	2 nuts M12x1
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#### Generical Data

Dimensions	$\text{Ø}12 / L = 67\text{mm}$
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Operating Temperature	-25°C...+70°C
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Mechanical Protection	IP67
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**Datasensing  
S.r.l.**

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

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