

# NAMUR

## 95B064170



**IS-12-C20-03**

**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	4mm
Operanting distance	0...3,24mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,4...0,5 / aluminium: 0,4...0,6 / brass: 0,5...0,7 / staineis steel: 0,7...1,05

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

Description	M12 NAMUR no-flush mount
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Functions	Proximity
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### Outputs

Output type	NAMUR
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Output Function	NAMUR
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Switching frequency	2kHz
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Response time	0,25
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### Electrical data

Operating Voltage	7.7...9Vdc
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No-Load supply current	< 1mA (target absent)
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Load current	< 3mA (target present)
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Max ripple content	≤ 10%
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	≥100kHz
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Protection against inductive loads	Yes
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#### Mechanical data

Mounting	Unshielded
Dimensions	Ø12x48
Housing Material	Nickel-plated brass
Connections	2m PVC Cable
Active Head Material	LCP
Tightening torque	6Nm
Material	Nickel-plated brass
Diameter/Dimension	M12

#### Test/Approvals

Approvals	CE cULus II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C
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#### Accessories

Supplied Accessories	2 nuts M12x1
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#### Generical Data

Dimensions	Ø12 / L = 48mm
Operating Temperature	-25°C...+60°C
Mechanical Protection	IP67

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