

Basic



95B063401

IS-12-H3-03

**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: 0,4...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 short case no-flush mount |
| Functions | Proximity |

Outputs

| | |
|---------------------|-------|
| Output type | NPN |
| Output Function | NO |
| Switching frequency | 500Hz |
| Response time | 1 |

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 | ≤ 75ms |

| | |
|------------------------------------|---------|
| Short-circuit protection | Yes |
| Reverse Polarity Protection | Yes |
| Emission | ≥100kHz |
| Protection against inductive loads | Yes |

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 ECOLAB DIVERSEY |
|-----------|--------------------------|

Accessories

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

Generical Data

| | |
|------------|----------------|
| Dimensions | Ø12 / L = 48mm |
|------------|----------------|

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

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