

# Basic



**95B067740**

**IS-12-F1-03**

**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 Diversey 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         | PNP   |
| 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            | ≤ 1,2V @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           | Ø12x64              |
| Mounting             | Unshielded          |
| Material             | Nickel-plated brass |
| Housing material     | Nickel-plated brass |
| Connections          | 2m PVC Cable        |
| 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 = 64mm |
|------------|----------------|

|                       |               |
|-----------------------|---------------|
| Operating Temperature | -25°C...+70°C |
|-----------------------|---------------|

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

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