# Basic



## 95B067040

### IS-18-F1-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 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 | 14mm |
| Operanting distance | 0…11,34mm |
| Standard target | 42x42mm FE360 |
| Correction Factor | copper: 0,4…0,5 / aluminium: 0,4…0,6 / brass: 0,5…0,7 / stainelss steel: 0,7…1,05 |

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

Application

| | |
|---|---|
| Description | M18 standard no-flush mount |
| Functions | Proximity |

Outputs

| | |
|---|---|
| Output type | PNP |
| Output Function | NO |
| Switching frequency | 100Hz |
| Response time | 5 |

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 | Ø18x82 |
| Mounting | Unshielded |
| Material | Nickel-plated brass |
| Housing material | Nickel-plated brass |
| Connections | M12 Plug |
| Active Head Material | LCP |
| Tightening torque | 20Nm |
| Diameter/Dimension | M18 |

Test/Approvals

| | |
|---|---|
| Approvals | CE cULus |

Accessories

| | |
|---|---|
| Supplied Accessories | 2 nuts M18x1 |

Generical Data

| | |
|---|---|
| Dimensions | Ø18 / L = 82mm |

| | |
|---|---|
| Operating Temperature | -25°C…+70°C |
| Mechanical Protection | IP67 |

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**date of printing**
04/11/2026
05:23:31