

# Basic



## 95B061701

**IS-18-C3-03**

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

### Outputs

|                     |      |
|---------------------|------|
| Output type         | NPN  |
| Output Function     | NO   |
| Switching frequency | 1kHz |
| Response time       | 0,5  |

### 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 | ≤ 50ms                  |

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

#### Mechanical data

|                      |                     |
|----------------------|---------------------|
| Mounting             | Unshielded          |
| Dimensions           | Ø18x79              |
| Housing Material     | Nickel-plated brass |
| Connections          | 2m PVC Cable        |
| Active Head Material | LCP                 |
| Tightening torque    | 20Nm                |
| Material             | Nickel-plated brass |
| Diameter/Dimension   | M18                 |

#### Test/Approvals

|           |                          |
|-----------|--------------------------|
| Approvals | CE cULus ECOLAB DIVERSEY |
|-----------|--------------------------|

#### Accessories

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

#### Generical Data

|            |                |
|------------|----------------|
| Dimensions | Ø18 / L = 79mm |
|------------|----------------|

Operating Temperature

-25°C...+60°C

Mechanical Protection

IP67

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