

# Weld Field Immune



95B065380

IS-F18-S1-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 | 5mm                                                                 |
| Operanting distance      | 0...4,05mm                                                          |
| Standard target          | 18x18mm FE360                                                       |
| Correction Factor        | copper: 0,4 / aluminium: 0,45 / brass: 0,5 / staineless steel: 0,85 |
|                          |                                                                     |

|                 |                            |
|-----------------|----------------------------|
| Repeat Accuracy | < 1% (UB 24V Ta=23°C ±5°C) |
|-----------------|----------------------------|

|            |       |
|------------|-------|
| Hysteresis | < 15% |
|------------|-------|

Application

|             |                                   |
|-------------|-----------------------------------|
| Description | M18 weld field immune flush mount |
|-------------|-----------------------------------|

|           |           |
|-----------|-----------|
| Functions | Proximity |
|-----------|-----------|

Outputs

|             |     |
|-------------|-----|
| Output type | PNP |
|-------------|-----|

|                 |    |
|-----------------|----|
| 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 | ≤ 1,5V @100mA |
|---------------------|---------------|

|                    |       |
|--------------------|-------|
| Max ripple content | ≤ 10% |
|--------------------|-------|

|                |                         |
|----------------|-------------------------|
| LED indicators | Yellow LED output state |
|----------------|-------------------------|

|                                |         |
|--------------------------------|---------|
| Time delay before availability | < 0,1ms |
|--------------------------------|---------|

|                          |     |
|--------------------------|-----|
| Short-circuit protection | Yes |
|--------------------------|-----|

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

Mechanical data

|                      |                 |
|----------------------|-----------------|
| Mounting             | Shielded        |
| Dimensions           | Ø18x73          |
| Housing Material     | Stainless steel |
| Connections          | M12 Plug        |
| Active Head Material | PTFE            |
| Material             | Stainless steel |
| Diameter/Dimension   | M18             |

Test/Approvals

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

Generical Data

|                       |                |
|-----------------------|----------------|
| Dimensions            | Ø18 / L = 73mm |
| Operating Temperature | -25°C...+70°C  |
| Mechanical Protection | IP67           |

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