

Basic



95B064230

IS-18-A0-03

**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 | 5mm |
| Operanting distance | 0...4,05mm |
| Standard target | 18x18mm FE360 |
| Correction Factor | copper: 0,2...0,5 / aluminium: 0,3...0,5 / brass: 0,4...0,6 / staineless steel: 0,7...0,9 |

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

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|------------|-------|
| Hysteresis | < 10% |
|------------|-------|

Application

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|-------------|--------------------------|
| Description | M18 standard flush mount |
|-------------|--------------------------|

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

| | |
|-------------|---------|
| Output type | NPN/PNP |
|-------------|---------|

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|-----------------|-------|
| Output Function | NO/NC |
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|---------------------|------|
| Switching frequency | 1kHz |
|---------------------|------|

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|---------------|-----|
| Response time | 0,5 |
|---------------|-----|

Electrical data

| | |
|-------------------|------------|
| Operating Voltage | 10...30Vdc |
|-------------------|------------|

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|------------------------|--------|
| No-Load supply current | ≤ 10mA |
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|--------------|-------|
| Load current | 200mA |
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| Output voltage drop | ≤ 1,8V @100mA |
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| Max ripple content | ≤ 10% |
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| LED indicators | Yellow LED output state |
|----------------|-------------------------|

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| Time delay before availability | ≤ 50ms |
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|--------------------------|-----|
| Short-circuit protection | Yes |
|--------------------------|-----|

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| Reverse Polarity Protection | Yes |
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|----------|----------------------|
| Emission | $\geq 100\text{kHz}$ |
|----------|----------------------|

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|------------------------------------|-----|
| Protection against inductive loads | Yes |
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Mechanical data

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|------------|------------------------|
| Dimensions | $\text{Ø}18 \times 70$ |
|------------|------------------------|

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|----------|----------|
| Mounting | Shielded |
|----------|----------|

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|----------|---------------------|
| Material | Nickel-plated brass |
|----------|---------------------|

| | |
|------------------|---------------------|
| Housing material | Nickel-plated brass |
|------------------|---------------------|

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|-------------|--------------|
| Connections | 2m PVC Cable |
|-------------|--------------|

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|----------------------|-----|
| Active Head Material | LCP |
|----------------------|-----|

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|-------------------|------|
| Tightening torque | 20Nm |
|-------------------|------|

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|--------------------|-----|
| Diameter/Dimension | M18 |
|--------------------|-----|

Test/Approvals

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

Accessories

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

Generical Data

| | |
|------------|--------------------------------|
| Dimensions | $\text{Ø}18 / L = 70\text{mm}$ |
|------------|--------------------------------|

| | |
|-----------------------|---------------|
| Operating Temperature | -25°C...+60°C |
|-----------------------|---------------|

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

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