

# Basic



**95B066620**

**IS-08-B2-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 | 1,5mm |
|--------------------------|-------|

|                     |            |
|---------------------|------------|
| Operanting distance | 0...1,21mm |
|---------------------|------------|

|                 |             |
|-----------------|-------------|
| Standard target | 8x8mm FE360 |
|-----------------|-------------|

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Correction Factor | copper: 0,2...0,5 / aluminium: 0,3...0,5 / brass: 0,4...0,6 / staineless steel: 0,7...0,9 |
|-------------------|-------------------------------------------------------------------------------------------|

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

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

Application

|             |                           |
|-------------|---------------------------|
| Description | M8 short case flush mount |
|-------------|---------------------------|

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

Outputs

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

|                 |    |
|-----------------|----|
| Output Function | NC |
|-----------------|----|

|                     |      |
|---------------------|------|
| Switching frequency | 1kHz |
|---------------------|------|

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

Electrical data

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

|                        |        |
|------------------------|--------|
| No-Load supply current | ≤ 10mA |
|------------------------|--------|

|              |       |
|--------------|-------|
| Load current | 200mA |
|--------------|-------|

|                     |               |
|---------------------|---------------|
| Output voltage drop | ≤ 1,2V @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      |                     |
| Dimensions           | Ø8X53               |
| Mounting             | Shielded            |
| Material             | Nickel-plated brass |
| Housing material     | Nickel-plated brass |
| Connections          | M12 Plug            |
| Active Head Material | LCP                 |
| Tightening torque    | 2Nm                 |
| Diameter/Dimension   | M8                  |

|                |          |
|----------------|----------|
| Test/Approvals |          |
| Approvals      | CE cULus |

|                      |             |
|----------------------|-------------|
| Accessories          |             |
| Supplied Accessories | 2 nuts M8x1 |

|                |               |
|----------------|---------------|
| Generical Data |               |
| Dimensions     | Ø8 / L = 53mm |

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

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

**Datasensing**  
**S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

**date of**  
**printing**  
10/08/2026  
01:17:51