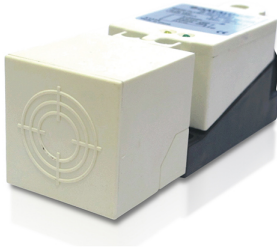


# Square



**95B060840**

**IS-88-Q1-S1**

**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: 0,4 / aluminium: 0,45 / brass: 0,5 / staineless steel: 0,85 |
|                          |                                                                     |

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

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

Application

|             |                                  |
|-------------|----------------------------------|
| Description | Small parallelepiped flush mount |
|-------------|----------------------------------|

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

Outputs

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

|                 |    |
|-----------------|----|
| Output Function | NO |
|-----------------|----|

|                     |       |
|---------------------|-------|
| Switching frequency | 500Hz |
|---------------------|-------|

|               |   |
|---------------|---|
| Response time | 1 |
|---------------|---|

Electrical data

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

|              |       |
|--------------|-------|
| 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 | 8x8x59 |
|------------|--------|

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

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

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

|             |         |
|-------------|---------|
| Connections | M8 Plug |
|-------------|---------|

|                    |        |
|--------------------|--------|
| Diameter/Dimension | 8x8x59 |
|--------------------|--------|

#### Test/Approvals

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

#### Generical Data

|            |          |
|------------|----------|
| Dimensions | 8x8x59mm |
|------------|----------|

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

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

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