



# AES

## AES/AP-3A8R

Ind.M8,PNP-NO,Cable,Sch-LD

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| Nominal sensing distance | 2mm                                                                                                              |
| Operanting distance      | 0...1,62mm                                                                                                       |
| Standard target          | 8x8mm FE360                                                                                                      |
| Correction Factor        | copper: $0,15 \pm 10\%$ / aluminium: $0,15 \pm 10\%$ / brass: $0,21 \pm 10\%$ / stainless steel: $0,56 \pm 10\%$ |
| Thermal drift of Sr      | < 10%                                                                                                            |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$ )                                                                   |
| Hysteresis               | 1 ... 20%                                                                                                        |

### Application

|             |                     |
|-------------|---------------------|
| Description | M8 mini flush mount |
| Functions   | Proximity           |

|                     |      |
|---------------------|------|
| Outputs             |      |
| Output type         | PNP  |
| Output Function     | NO   |
| Switching frequency | 7kHz |

|                                    |                                  |
|------------------------------------|----------------------------------|
| Electrical data                    |                                  |
| Operating Voltage                  | 10...30Vdc                       |
| No-Load supply current             | $\leq 10\text{mA}$               |
| Load current                       | $\leq 100\text{mA}$              |
| Leakage current                    | $\leq 10\mu\text{A}$             |
| Output voltage drop                | $\leq 1,5\text{V @}100\text{mA}$ |
| Max ripple content                 | $\leq 10\%$                      |
| LED indicators                     | Yellow LED output state          |
| Time delay before availability     | $\leq 50\text{ms}$               |
| Short-circuit protection           | Yes                              |
| Reverse Polarity Protection        | Yes                              |
| Impulsive Overvoltage Protection   | Yes                              |
| Protection against inductive loads | Yes                              |

|                 |  |
|-----------------|--|
| Mechanical data |  |
|                 |  |

|                      |                          |
|----------------------|--------------------------|
| Mounting             | Shielded                 |
| Material             | AISI303 Stainless Steel  |
| Housing material     | AISI 303 Stainless Steel |
| Connections          | 10m PVC Cable            |
| Active Head Material | PBT                      |
| Tightening torque    | 5Nm                      |
| Diameter/Dimension   | M8                       |

Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | IEC 60947-5-2                                  |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |

Accessories

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

Generical Data

|                       |                     |
|-----------------------|---------------------|
| Dimensions            | M8 x 1 / L = 20,3mm |
| Operating Temperature | -25°C...+70°C       |
| Mechanical Protection | IP67                |

**S.r.l.**

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