



# AE

## AE1/AP-1FAN

Ind.M8,PNP-NO,M8,Sch-STD

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 1,5mm                                                                |
| Operanting distance      | 0...1,21mm                                                           |
| Standard target          | 8x8mm FE360                                                          |
| Correction Factor        | copper: 0,29 / aluminium: 0,38 / brass: 0,49 / stainless steel: 0,78 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

### Application

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

## Outputs

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

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

|                     |      |
|---------------------|------|
| Switching frequency | 5kHz |
|---------------------|------|

## Electrical data

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

|                        |                    |
|------------------------|--------------------|
| No-Load supply current | $\leq 10\text{mA}$ |
|------------------------|--------------------|

|              |                     |
|--------------|---------------------|
| Load current | $\leq 200\text{mA}$ |
|--------------|---------------------|

|                 |                      |
|-----------------|----------------------|
| Leakage current | $\leq 10\mu\text{A}$ |
|-----------------|----------------------|

|                     |                                  |
|---------------------|----------------------------------|
| Output voltage drop | $\leq 1,8\text{V @}200\text{mA}$ |
|---------------------|----------------------------------|

|                    |             |
|--------------------|-------------|
| 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             | Nickel-plated brass |
| Housing material     | Nickel-plated brass |
| Connections          | M8 Plug             |
| Active Head Material | PBT                 |
| Tightening torque    | 3Nm                 |
| Diameter/Dimension   | M8                  |

Test/Approvals

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Approvals             | CE UR II 3G Ex nA IIC T5 Gc II 3D Ex tc IIIB T90°C Dc |
| 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 = 50mm |
| Operating Temperature | -25°C...+70°C     |
| Mechanical Protection | IP67              |

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