



# AH

## AH6/AP-1A86

Ind.d6,5,PNP-NO,Cable,Sch-STD

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 1,5mm                                                                |
| Operanting distance      | 0...1,21mm                                                           |
| Standard target          | 8x8mm FE360                                                          |
| Correction Factor        | copper: 0,06 / aluminium: 0,13 / brass: 0,24 / stainless steel: 0,56 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

### Application

|             |                             |
|-------------|-----------------------------|
| Description | Ø6,5 short case 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             | AISI303 Stainless Steel |
| Housing material     | AISI303 Stainless Steel |
| Connections          | 5m PVC Cable            |
| Active Head Material | PBT                     |
| Diameter/Dimension   | Ø6,5                    |

#### Test/Approvals

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

#### Generical Data

|                       |                   |
|-----------------------|-------------------|
| Dimensions            | Ø6,5 / L = 35,5mm |
| Operating Temperature | -25°C...+70°C     |
| Mechanical Protection | IP67              |

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