



**AK**

**AK1/AP-1A8R**

**Ind.M18,PNP-NO,Cable,Sch-STD**

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 5mm                                                                  |
| Operanting distance      | 0...4,05mm                                                           |
| Standard target          | 18x18mm FE360                                                        |
| Correction Factor        | copper: 0,40 / aluminium: 0,48 / brass: 0,50 / stainless steel: 0,86 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

### Application

|             |                          |
|-------------|--------------------------|
| Description | M18 standard flush mount |
| Functions   | Proximity                |

### Outputs

|                     |       |
|---------------------|-------|
| Output type         | PNP   |
| Output Function     | NO    |
| Switching frequency | 600Hz |

### Electrical data

|                                    |                                |
|------------------------------------|--------------------------------|
| Operating Voltage                  | 10...30Vdc                     |
| No-Load supply current             | $\leq 20\text{mA}$             |
| Load current                       | $\leq 400\text{mA}$            |
| Leakage current                    | $\leq 10\mu\text{A}$           |
| Output voltage drop                | $\leq 1\text{V @}400\text{mA}$ |
| 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          | 10m PVC Cable       |
| Active Head Material | PBT                 |
| Tightening torque    | 25Nm                |
| Diameter/Dimension   | M18                 |

Test/Approvals

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

Accessories

|                      |              |
|----------------------|--------------|
| Supplied Accessories | 2 nuts M18x1 |
|----------------------|--------------|

Generical Data

|                       |                    |
|-----------------------|--------------------|
| Dimensions            | M18 x 1 / L = 50mm |
| Operating Temperature | -25°C...+70°C      |
| Mechanical Protection | IP67               |

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

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