



# PFK

## PFK1/AP-2HAN

Ind.M18,PNP-NO,M12 Plug,Nsch-STD

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 8mm                                                                  |
| Operanting distance      | 0...6,48mm                                                           |
| Standard target          | 24x24mm FE360                                                        |
| Correction Factor        | copper: 0,27 / aluminium: 0,35 / brass: 0,42 / stainless steel: 0,70 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

### Application

|             |                             |
|-------------|-----------------------------|
| Description | M18 standard no-flush mount |
| Functions   | Proximity                   |

## Outputs

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

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

|                     |        |
|---------------------|--------|
| Switching frequency | 1,5kHz |
|---------------------|--------|

## Electrical data

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

|                        |                    |
|------------------------|--------------------|
| No-Load supply current | $\leq 15\text{mA}$ |
|------------------------|--------------------|

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

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

|                     |                                |
|---------------------|--------------------------------|
| Output voltage drop | $\leq 2\text{V @}200\text{mA}$ |
|---------------------|--------------------------------|

|                    |             |
|--------------------|-------------|
| 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 | Unshielded |
|----------|------------|

|                      |                          |
|----------------------|--------------------------|
|                      |                          |
| Material             | AISI316L Stainless Steel |
| Housing material     | AISI316L Stainless Steel |
| Weight               | 55g                      |
| Connections          | M12 Plug                 |
| Active Head Material | PPS                      |
| Tightening torque    | 50Nm                     |
| Diameter/Dimension   | M18                      |

Test/Approvals

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Approvals             | CE cULus ECOLAB DIVERSEY II 3G Ex nA IIC T5 Gc II 3D Ex tc IIIB T85°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 M18x1 |
|----------------------|--------------|

Generical Data

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Dimensions            | M18 x 1 / L = 63,1mm                                                   |
| Operating Temperature | -40°C...+80°C (up to 100°C for short exposure during cleaning process) |
| Mechanical Protection | IP67                                                                   |

**Datasensing  
S.r.l.**

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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