

AHS

AHS/AP-1A

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

Ø 6.5 MM CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS



OVERVIEW



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| Nominal sensing distance | 1,5mm |
| Operanting distance | 0...1,21mm |
| Standard target | 6,5x6,5mm FE360 |
| Correction Factor | copper: $0,10 \pm 10\%$ / aluminium: $0,05 \pm 10\%$ / brass: $0,13 \pm 10\%$ / stainless steel: $0,54 \pm 10\%$ |
| Thermal drift of Sr | < 10% |
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |
| Hysteresis | 1 ... 20% |

Application

| | |
|-------------|-----------------------|
| Description | Ø6,5 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 |
| Dimensions | Ø6,5 / L = 20,3mm |
| Weight | 30g |
| Housing Material | AISI303 Stainless Steel |
| Connections | 2m PVC Cable |
| Active Head Material | PBT |
| Operating temperature | -25°C...+70°C |
| Material | AISI303 Stainless Steel |
| Diameter/Dimension | Ø6,5 |

Test/Approvals

| | |
|-----------------------|------------------------------------------------|
| Approvals | CE cULus |
| EMC compatibility | IEC 60947-5-2 |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection | IP67 |

Generical Data

| | |
|------------|-------------------|
| Dimensions | Ø6,5 / L = 20,3mm |
|------------|-------------------|

Operating Temperature

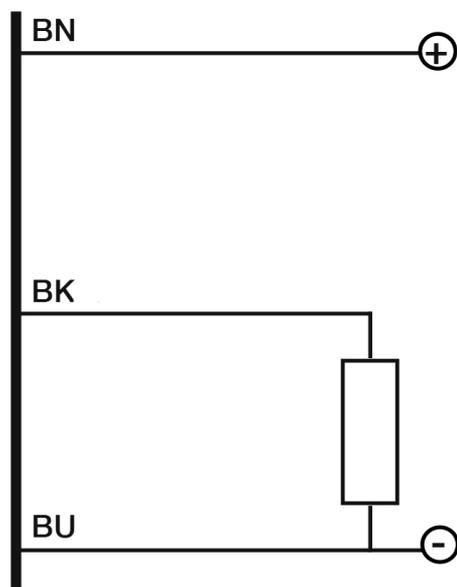
-25°C...+70°C

Mechanical Protection

IP67

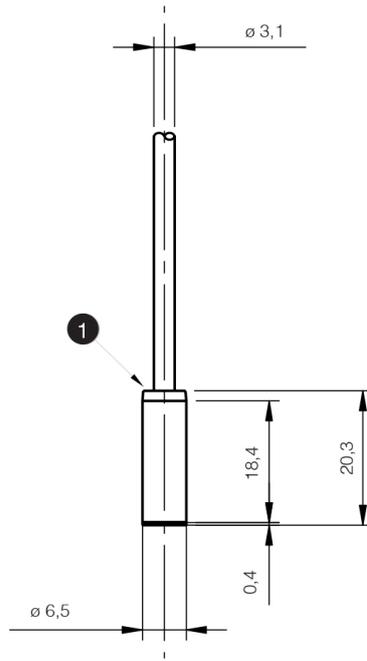
CONNECTIONS

Electrical diagram

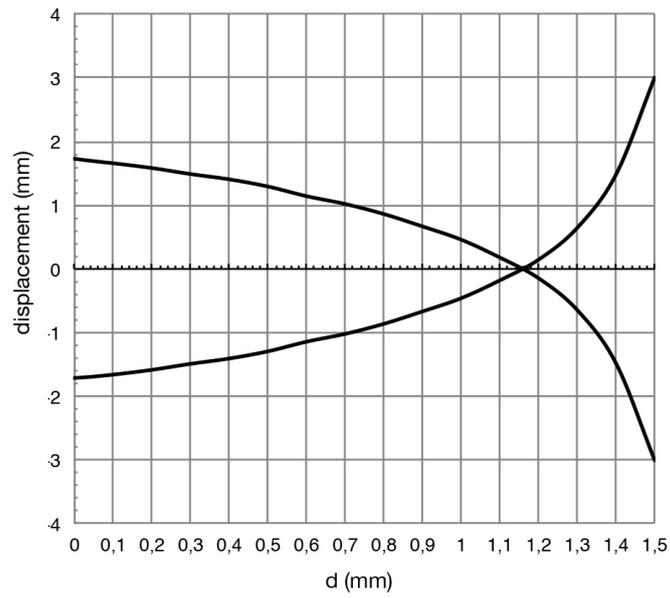


OTHERS

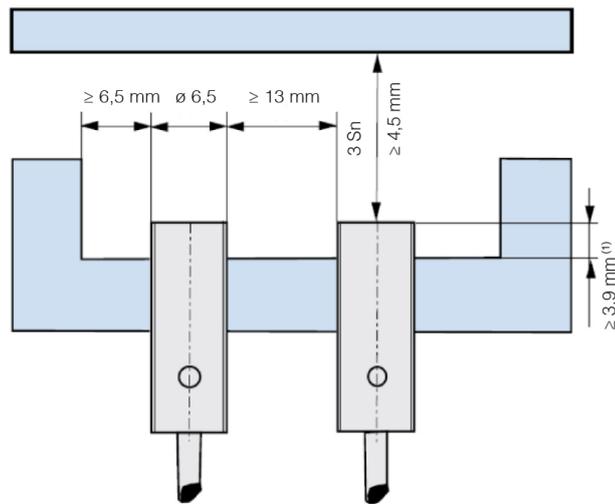
Dimensions



Response curves



Installation



⁽¹⁾ $\geq 4 \text{ mm}$ without ferro-magnetic material

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