



PK3

PK3/00-1A

Ind.M18,NPN/PNP-NO/NC,Cable,Sch-STD
M18 DECOU[®] CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, long distance, DECOU[®] output
- Output: cable, M12 and plug cable exit
- Models with 4 wires
- ATEX models, cat. 3, available on request
- Special models with double enclosure immersion proof (IP 68)
- Models with complementary output (NO+NC)



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 5mm |
| Operating distance | 0...4,05mm |
| Standard target | 18x18mm FE360 |
| Correction Factor | copper: 0,40 / aluminium: 0,48 / brass: 0,72 / 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 |
|-------------|--------------------------|

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|-----------|-----------|
| Functions | Proximity |
|-----------|-----------|

Outputs

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|-------------|---------|
| Output type | NPN/PNP |
|-------------|---------|

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|-----------------|-------|
| Output Function | NO/NC |
|-----------------|-------|

| | |
|---------------------|-------|
| Switching frequency | 300Hz |
|---------------------|-------|

Electrical data

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

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|------------------------|--------|
| No-Load supply current | ≤ 30mA |
|------------------------|--------|

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|--------------|---------|
| Load current | ≤ 100mA |
|--------------|---------|

| | |
|-----------------|--------|
| Leakage current | ≤ 10μA |
|-----------------|--------|

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|---------------------|---------------|
| Output voltage drop | ≤ 1,2V @100mA |
|---------------------|---------------|

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|--------------------|-------|
| Max ripple content | ≤ 10% |
|--------------------|-------|

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|----------------|-------------------------|
| LED indicators | Yellow LED output state |
|----------------|-------------------------|

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|--------------------------------|--------|
| Time delay before availability | ≤100ms |
|--------------------------------|--------|

| | |
|--------------------------|-----|
| Short-circuit protection | Yes |
|--------------------------|-----|

| | |
|------------------------------------|-----|
| Reverse Polarity Protection | Yes |
| Impulsive Overvoltage Protection | Yes |
| Protection against inductive loads | Yes |

Mechanical data

| | |
|-----------------------|---------------------|
| Dimensions | M18 x 1 / L = 68mm |
| Mounting | Shielded |
| Material | Nickel-plated brass |
| Housing material | Nickel-plated brass |
| Weight | 130g |
| Connections | 2m PVC Cable |
| Active Head Material | PBT |
| Tightening torque | 25Nm |
| Operating temperature | -25°C...+70°C |
| Diameter/Dimension | M18 |

Test/Approvals

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

Degree of protection IP67

Accessories

Supplied Accessories 2 nuts M18x1

Generical Data

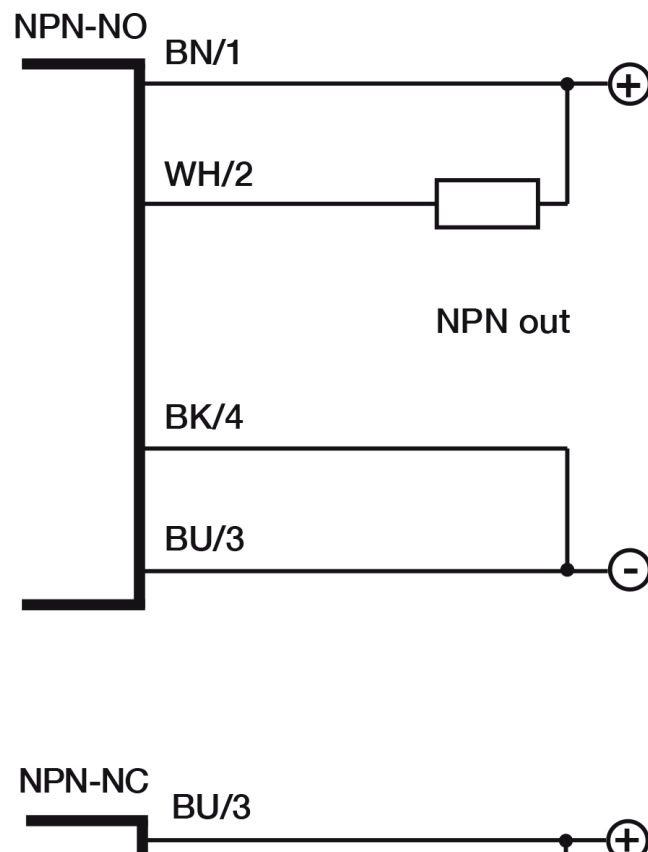
Dimensions M18 x 1 / L = 68mm

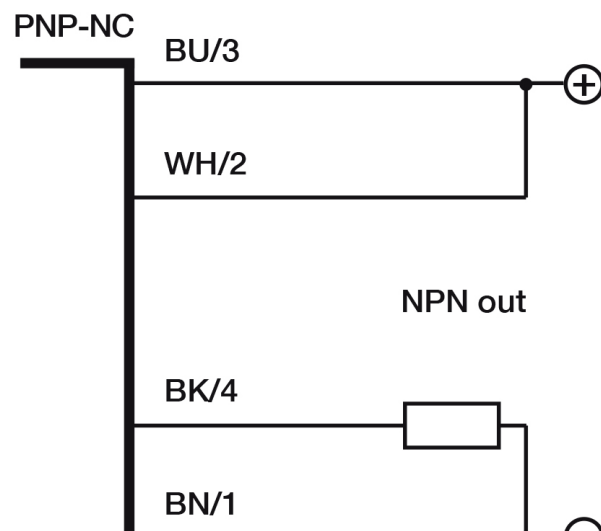
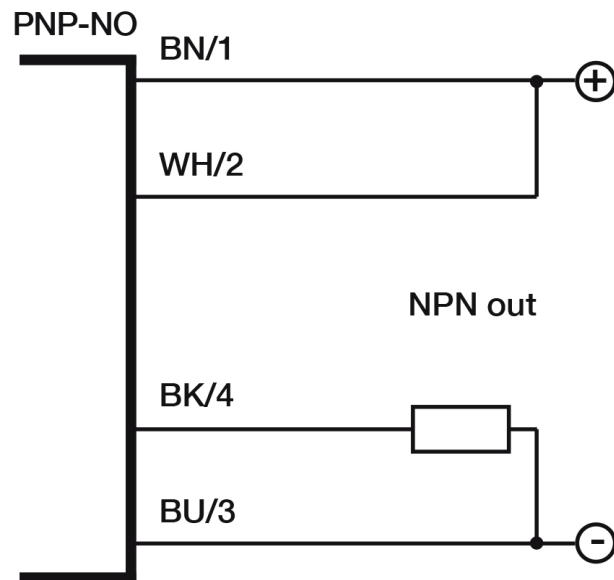
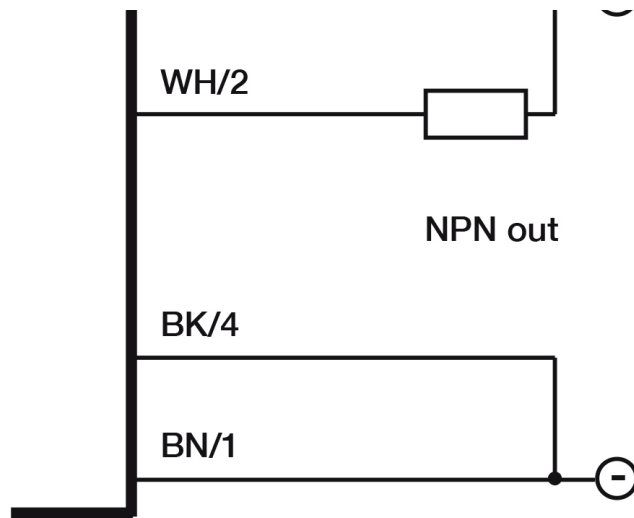
Operating Temperature -25°C...+70°C

Mechanical Protection IP67

CONNECTIONS

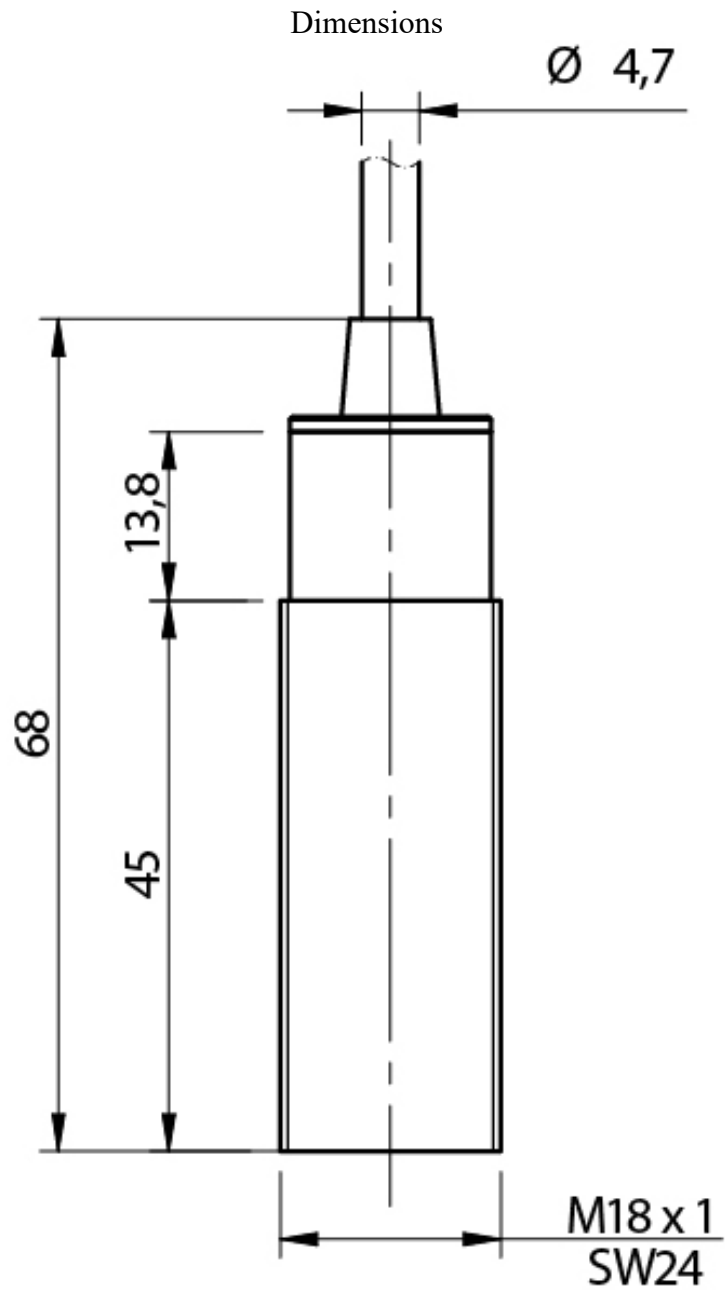
Electrical diagram



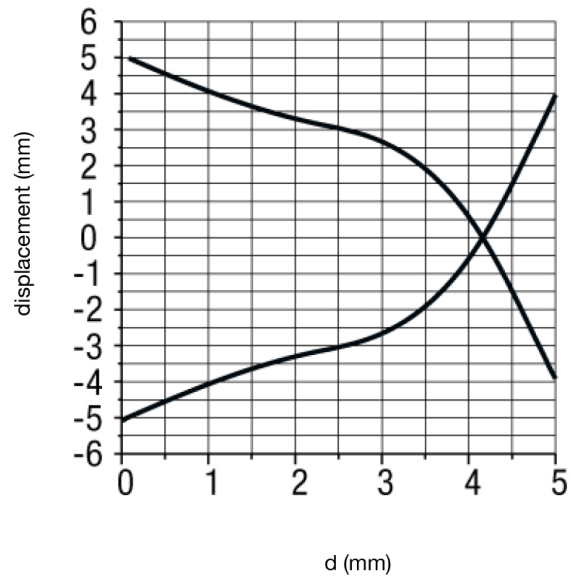




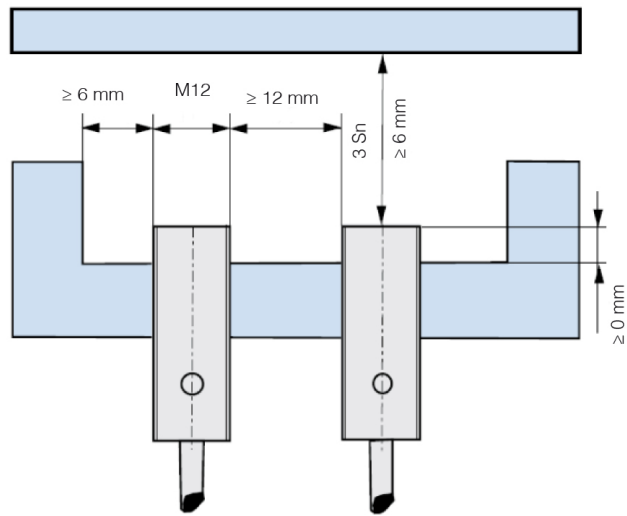
OTHERS



Response curves



Installation



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