



PM3

PM3/00-1A

Ind.M12,NPN/PNP-NO/NC,Cable,Sch-STD
M12 DECOU[®] CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, DECOU[®] output
- Output: cable, M12 plug cable exit
- Models with 4 wires
- ATEX models, cat. 3, available on request



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 2mm |
| Operanting distance | 0...1,62mm |
| Standard target | 12x12mm FE360 |
| Correction Factor | copper: 0,30 / aluminium: 0,35 / brass: 0,50 / stainless steel: 0,80 |
| Thermal drift of Sr | < 10% |
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |

| | |
|------------|-----------|
| Hysteresis | 1 ... 20% |
|------------|-----------|

Application

| | |
|-------------|--------------------------|
| Description | M12 standard flush mount |
|-------------|--------------------------|

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

Outputs

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

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

| | |
|---------------------|------|
| Switching frequency | 1kHz |
|---------------------|------|

Electrical data

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

| | |
|------------------------|--------------------|
| No-Load supply current | $\leq 30\text{mA}$ |
|------------------------|--------------------|

| | |
|--------------|---------------------|
| Load current | $\leq 100\text{mA}$ |
|--------------|---------------------|

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

| | |
|---------------------|----------------------------------|
| Output voltage drop | $\leq 1,2\text{V @}100\text{mA}$ |
|---------------------|----------------------------------|

| | |
|--------------------|-------------|
| Max ripple content | $\leq 10\%$ |
|--------------------|-------------|

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

| | |
|--------------------------------|---------------------|
| Time delay before availability | $\leq 100\text{ms}$ |
|--------------------------------|---------------------|

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

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

Mechanical data

| | |
|-----------------------|----------------------|
| Dimensions | M12 x 1 / L = 64,3mm |
| Mounting | Shielded |
| Material | Nickel-plated brass |
| Housing material | Nickel-plated brass |
| Weight | 66g |
| Connections | 2m PVC Cable |
| Active Head Material | PBT |
| Tightening torque | 10Nm |
| Operating temperature | -25°C...+70°C |
| Diameter/Dimension | M12 |

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 M12x1

Generical Data

Dimensions

M12 x 1 / L = 64,3mm

Operating Temperature

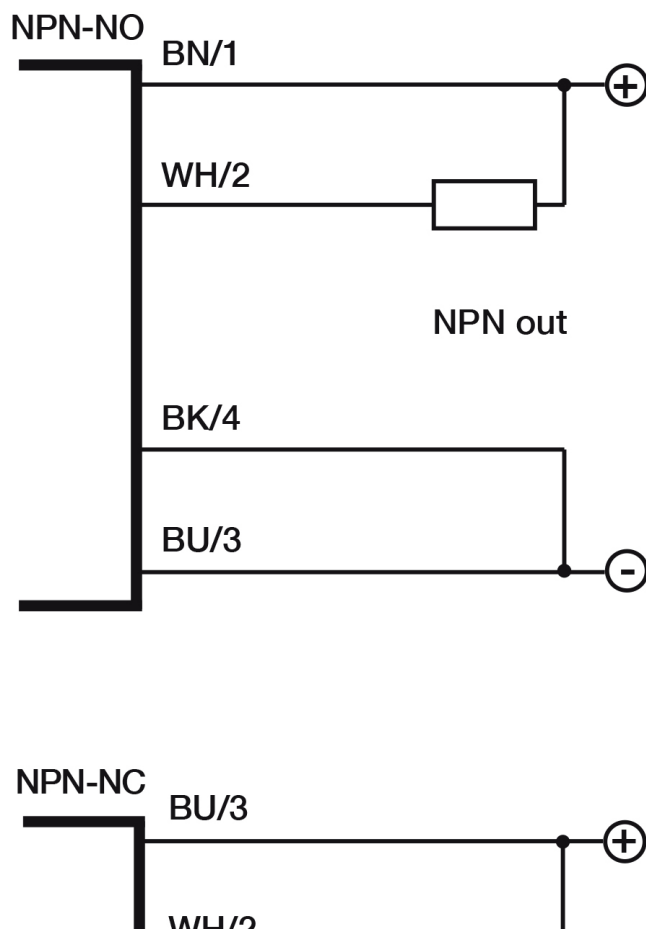
-25°C...+70°C

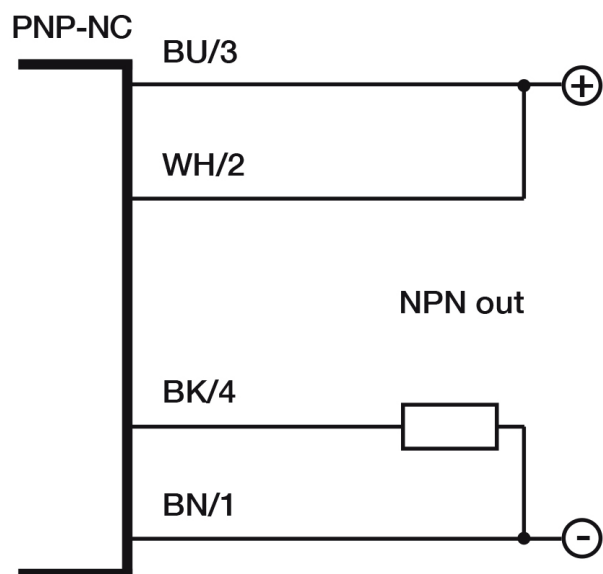
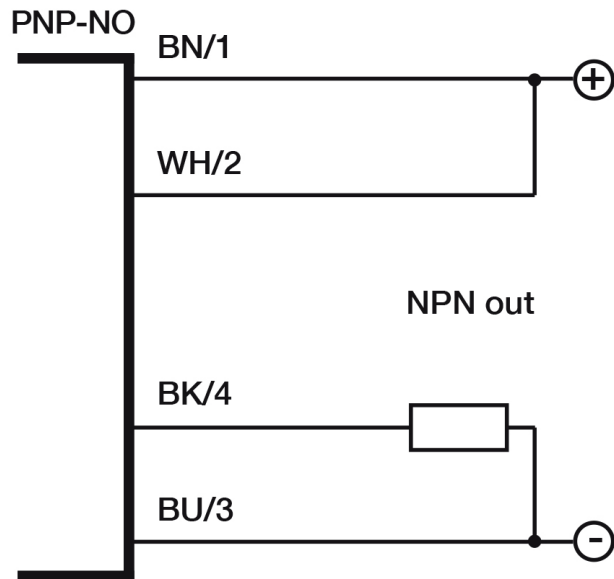
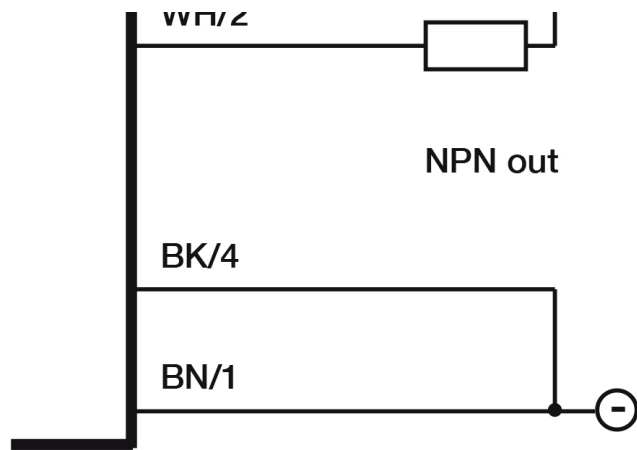
Mechanical Protection

IP67

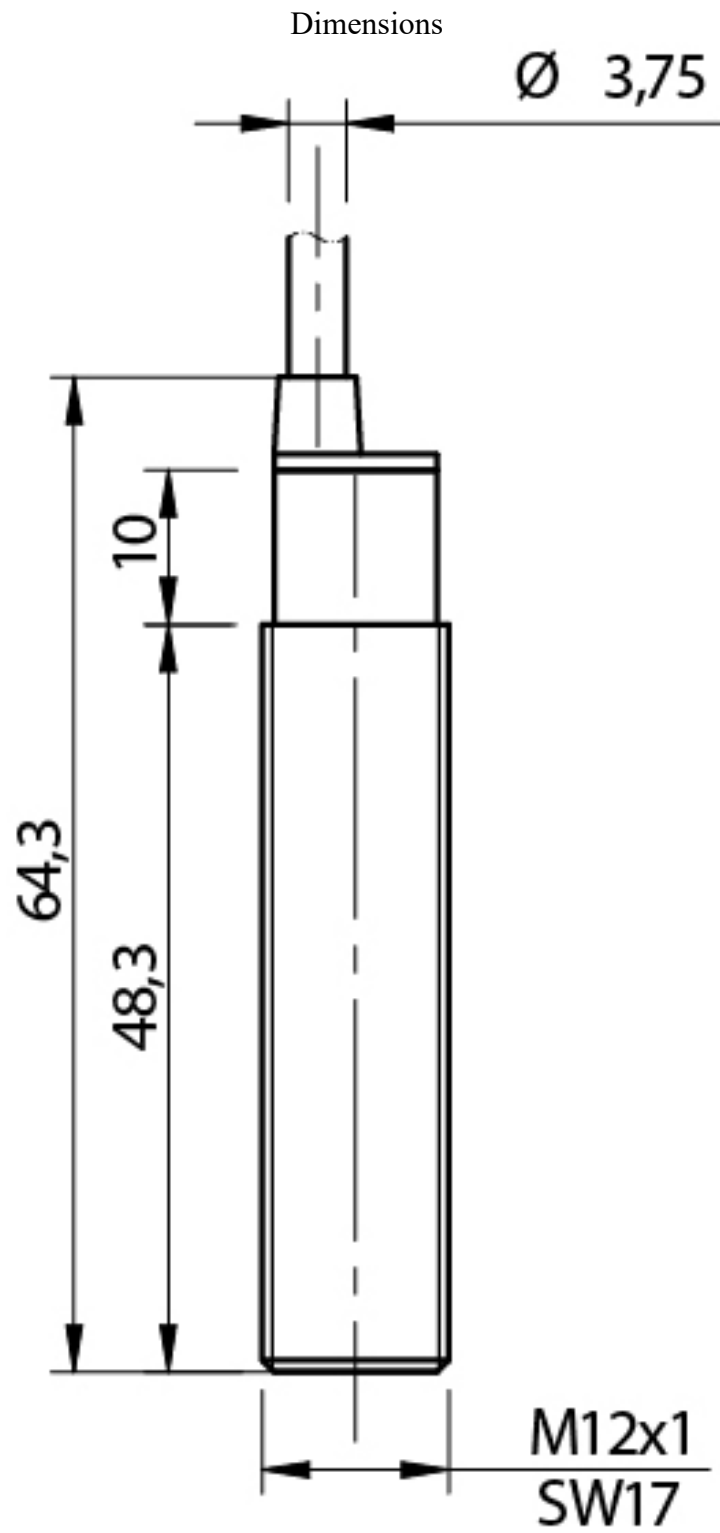
CONNECTIONS

Electrical diagram

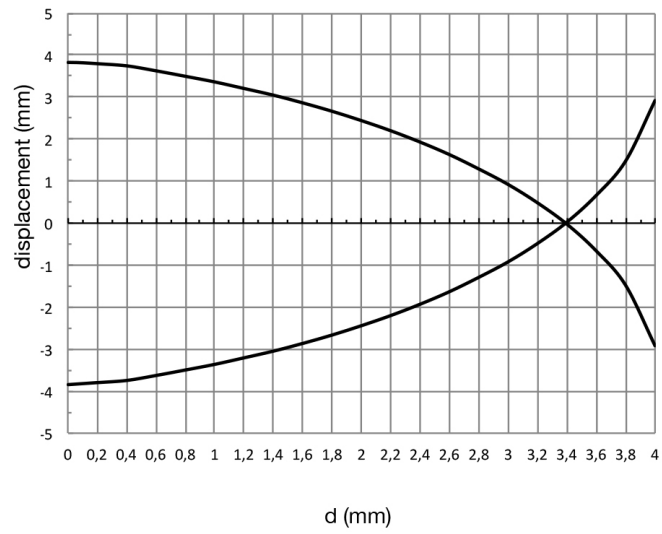




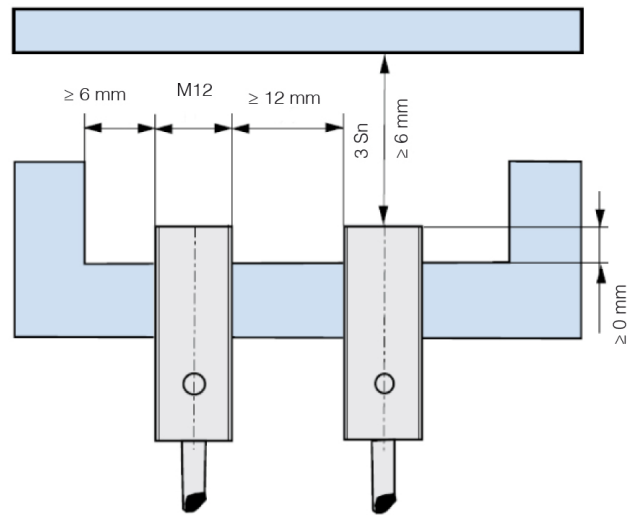
OTHERS



Response curves



Installation



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**date of
printing**
 13/06/2026
 13:44:09