



AT

AT1/0P-1H

Ind.M30,PNP-NO+NC,M12 plug,Sch-STD
M30 CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, long distance
- Output: cable, M12 and plug cable exit
- Models with 2, 3, and 4 wires
- ATEX models, cat. 3, available on request
- Models with complementary output (NO + NC)
- Complete protection against electrical damages



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 10mm |
| Operanting distance | 0...8,1mm |
| Standard target | 30x30mm FE360 |
| Correction Factor | copper: 0,35 / aluminium: 0,45 / brass: 0,50 / stainless steel: 0,75 |
| Thermal drift of Sr | < 10% |

| | |
|-----------------|----------------------------|
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |
|-----------------|----------------------------|

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

Application

| | |
|-------------|--------------------------|
| Description | M30 standard flush mount |
|-------------|--------------------------|

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

Outputs

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

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|-----------------|---------|
| Output Function | NO + NC |
|-----------------|---------|

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|---------------------|-------|
| Switching frequency | 200Hz |
|---------------------|-------|

Electrical data

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

| | |
|------------------------|--------|
| No-Load supply current | ≤ 20mA |
|------------------------|--------|

| | |
|--------------|---------|
| Load current | ≤ 400mA |
|--------------|---------|

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

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|---------------------|-------------|
| Output voltage drop | ≤ 1V @400mA |
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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 |
|--------------------------|-----|

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|-----------------------------|-----|
| Reverse Polarity Protection | Yes |
|-----------------------------|-----|

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|----------------------------------|-----|
| Impulsive Overvoltage Protection | Yes |
|----------------------------------|-----|

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|------------------------------------|-----|
| Protection against inductive loads | Yes |
|------------------------------------|-----|

Mechanical data

| | |
|----------|----------|
| Mounting | Shielded |
|----------|----------|

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|------------|----------------------|
| Dimensions | M30 x 1,5 / L = 76mm |
|------------|----------------------|

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|--------|------|
| Weight | 150g |
|--------|------|

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|------------------|---------------------|
| Housing Material | Nickel-plated brass |
|------------------|---------------------|

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|-------------|----------|
| Connections | M12 Plug |
|-------------|----------|

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|----------------------|-----|
| Active Head Material | PBT |
|----------------------|-----|

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|-------------------|------|
| Tightening torque | 50Nm |
|-------------------|------|

| | |
|-----------------------|---------------|
| Operating temperature | -25°C...+70°C |
|-----------------------|---------------|

| | |
|----------|---------------------|
| Material | Nickel-plated brass |
|----------|---------------------|

| | |
|--------------------|-----|
| Diameter/Dimension | M30 |
|--------------------|-----|

Test/Approvals

| | |
|-----------|-------|
| Approvals | CE UR |
|-----------|-------|

| | |
|-------------------|---------------|
| 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 M30x1.5

Generical Data

Dimensions

M30 x 1,5 / L = 76mm

Operating Temperature

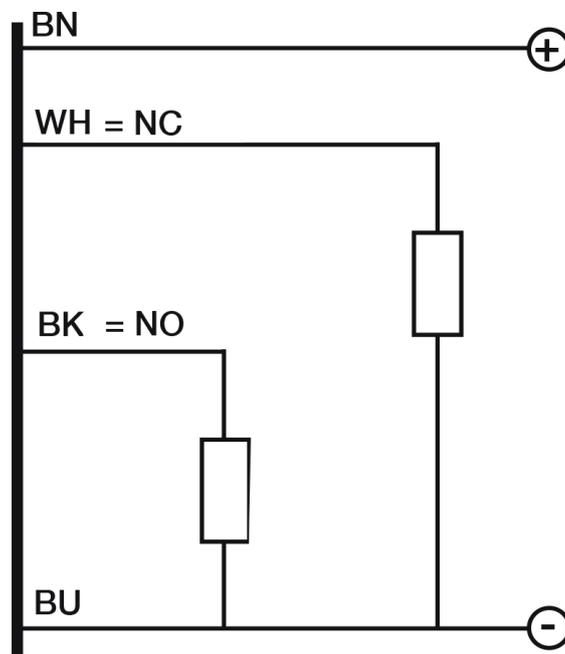
-25°C...+70°C

Mechanical Protection

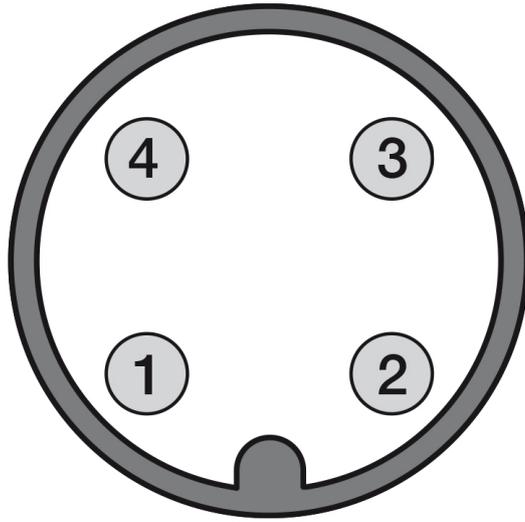
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CONNECTIONS

Electrical diagram

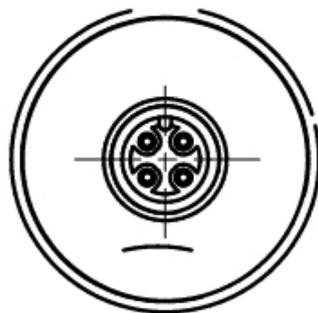
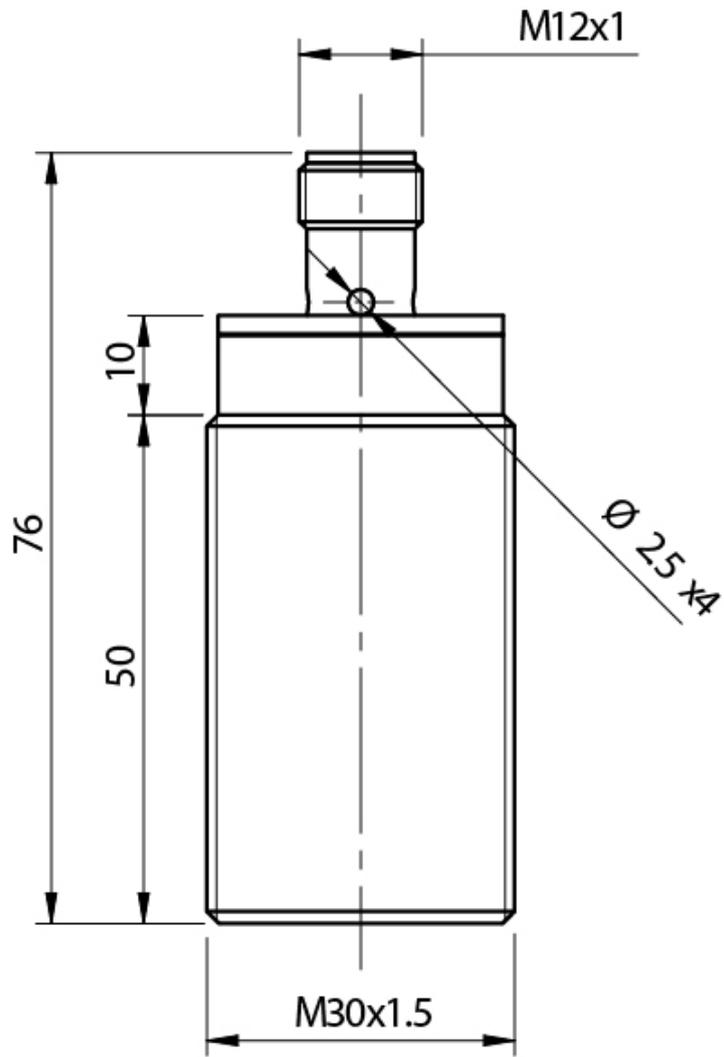


Connector

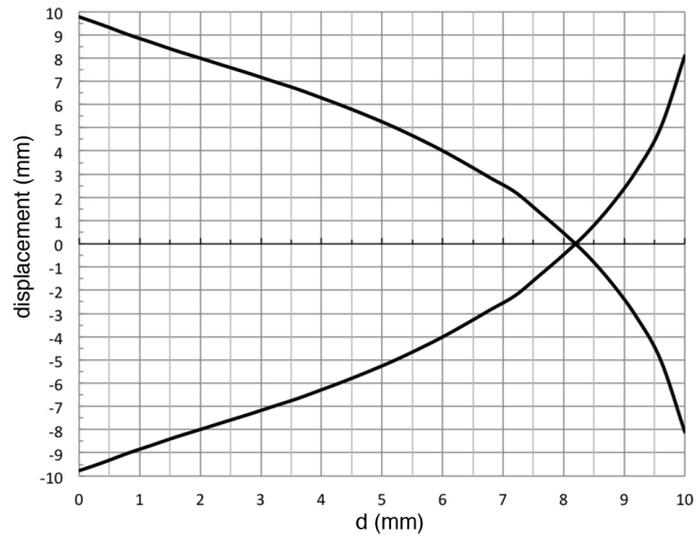


OTHERS

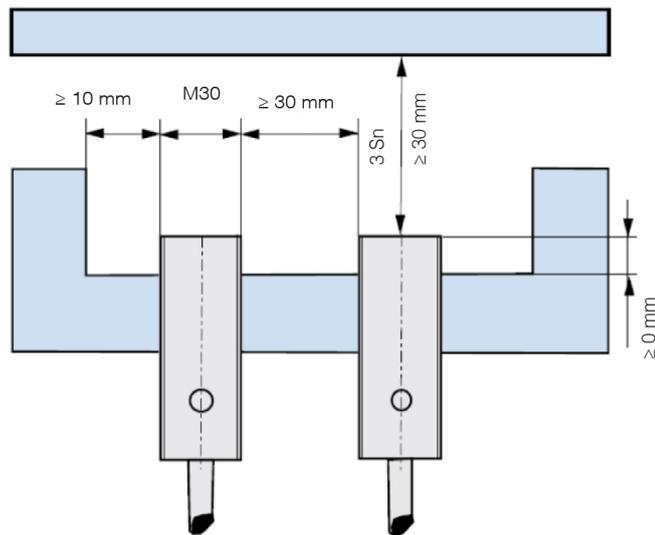
Dimensions



Response curves



Installation



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