



Sensor de segurança magnético 171

Sensor de segurança com atuação magnética, carcaça cilíndrica M30, fácil de montar e compatível com a maioria dos relés de segurança industriais.

Especificação Técnica

- Conexões disponíveis: cabo, conector M8 e M12
- Diagnóstico através de LED (opcional) e controle de contato

Desenho técnico

IMAGE 1/3

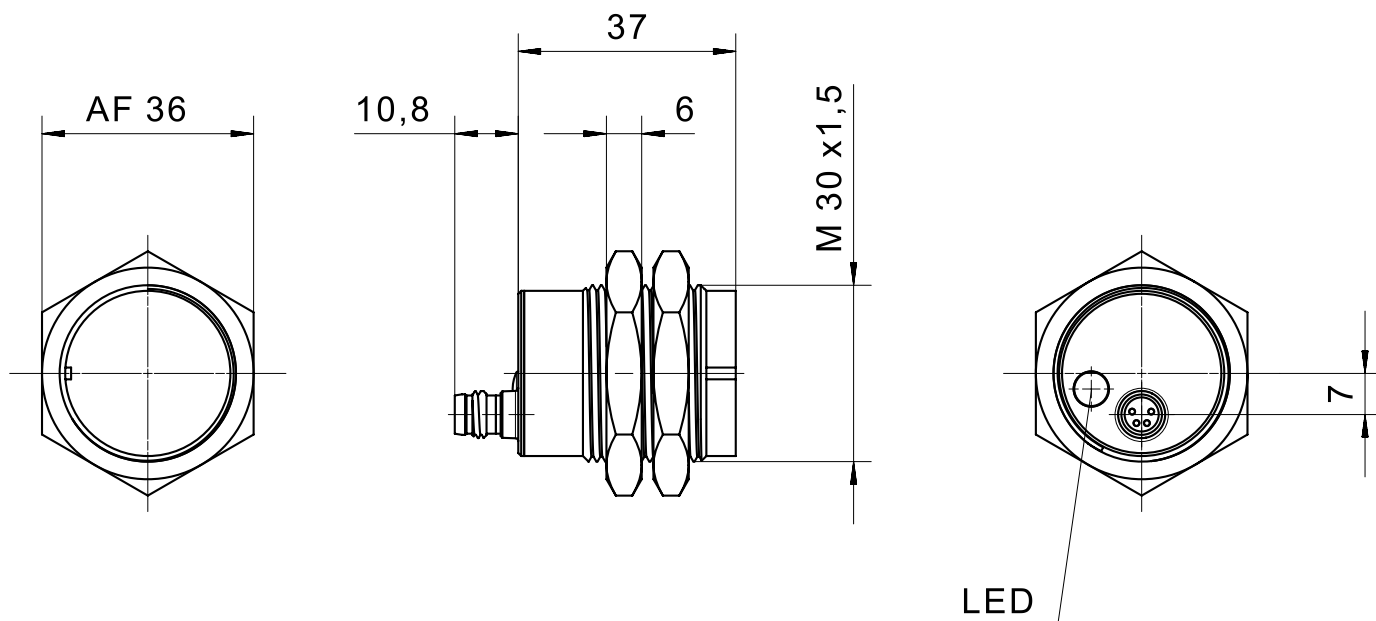
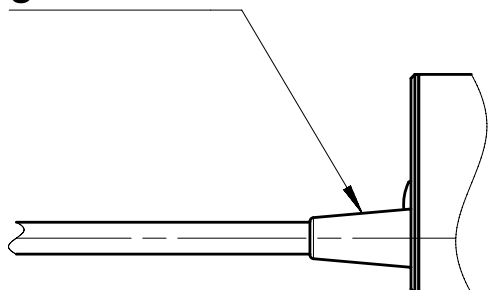
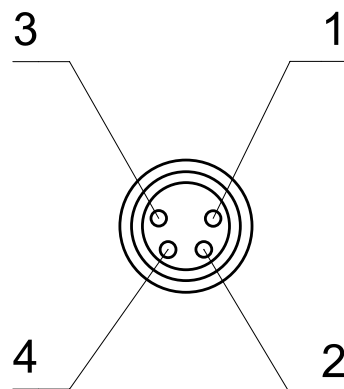


IMAGE 2/3

grommet



male M8



male M12

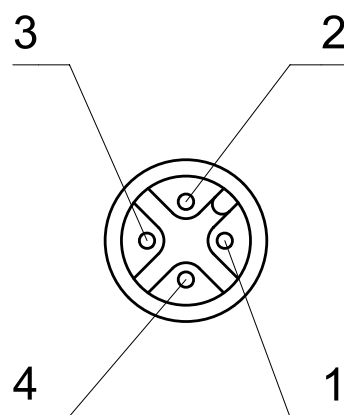
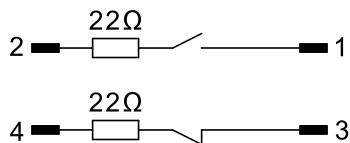
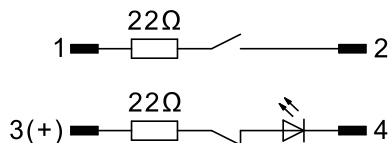


IMAGE 3/3

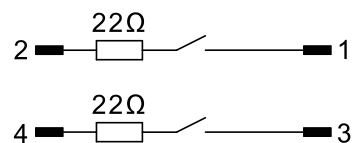
171271AY, 171271A0D



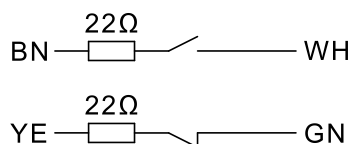
171271AZ, 171271A0E



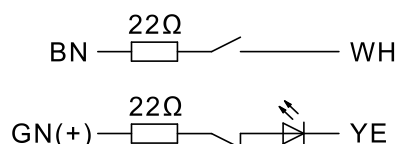
171V62AY, 171V62A0D



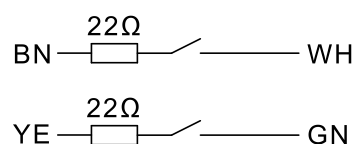
171271



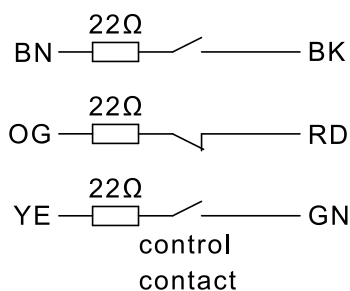
171271AA



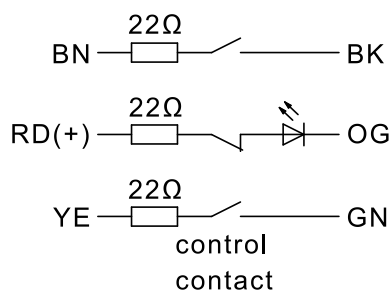
171V62,



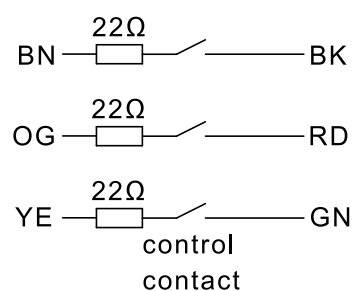
171571



171571AA

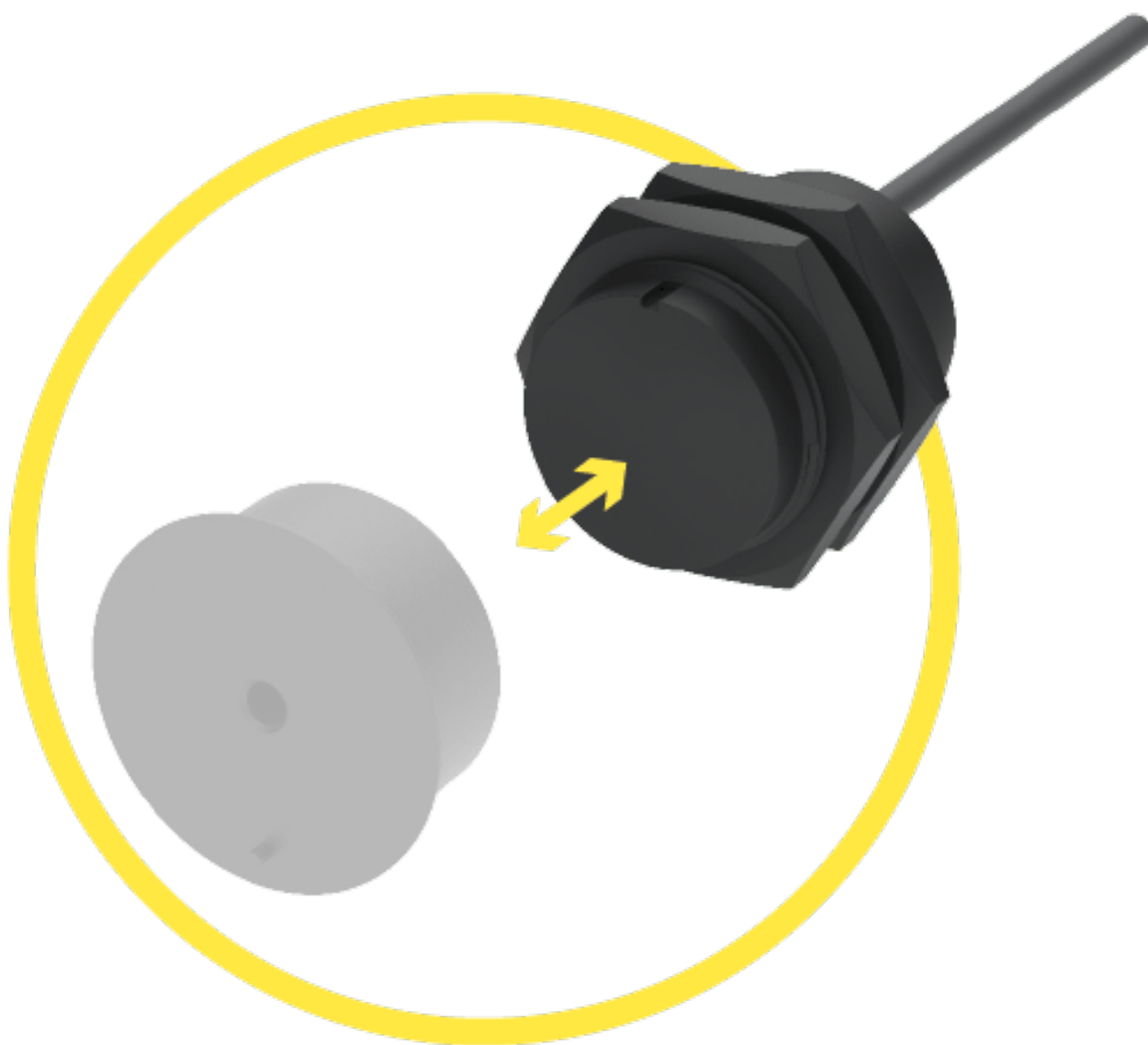


171562



Product options

IMAGE 1/3



Suitable for front actuation. Assured switching distance (S_{ao}) of 4 mm with standard actuators, 7 mm with extended-range actuators. Assured switch-off distance (S_{ar}) of up to 17 mm with standard actuators, up to 23 mm with extended-range actuators

IMAGE 2/3

ORDERING KEY

| | 171V62 | 171V62AY | 171V62A0D | 171271 | 171271AA |
|---|--------|----------|-----------|--------|----------|
| Plastic housing M30 | X | X | X | X | X |
| M12x1 connector, 4-pin, plastic | - | X | - | - | - |
| M8x1 connector, 4-pin, nickel-plated brass | - | - | X | - | - |
| Connection cable 1m* | X | - | - | X | X |
| N.O./N.O. contacts | X | X | X | - | - |
| N.O./N.C. contacts | - | - | - | X | X |
| Additional N.O. control contact | - | - | - | - | - |
| LED in series to N.C. | - | - | - | - | X |
| Coded | X | X | X | X | X |
| Uncoded | - | - | - | - | - |

| | 171271AY | 171271AZ | 171271A0D | 171271A0E | 171562 |
|---|----------|----------|-----------|-----------|--------|
| Plastic housing M30 | X | X | X | X | X |
| M12x1 connector, 4-pin, plastic | X | X | - | - | - |
| M8x1 connector, 4-pin, nickel-plated brass | - | - | X | X | - |
| Connection cable 1m* | - | - | - | - | X |
| N.O./N.O. contacts | - | - | - | - | X |
| N.O./N.C. contacts | X | X | X | X | - |
| Additional N.O. control contact | - | - | - | - | X |
| LED in series to N.C. | - | X | - | X | - |
| Coded | X | X | X | X | X |
| Uncoded | - | - | - | - | - |

| | 171571 | 171571AA | | | |
|---|--------|----------|--|--|--|
| Plastic housing M30 | X | X | | | |
| M12x1 connector, 4-pin, plastic | - | - | | | |
| M8x1 connector, 4-pin, nickel-plated brass | - | - | | | |
| Connection cable 1m* | X | X | | | |
| N.O./N.O. contacts | - | - | | | |
| N.O./N.C. contacts | X | X | | | |
| Additional N.O. control contact | X | X | | | |
| LED in series to N.C. | - | X | | | |
| Coded | X | X | | | |
| Uncoded | - | - | | | |

* Other cable lengths, cable materials and connector types on request

IMAGE 3/3

MATCHING ACTUATORS

| Actuators | Actuation direction | 171V62.. | | | 171262.. | | | 171271.. | | | 171562.. | | | 171571.. | | | 17127118 | | |
|-------------------------------|---------------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----------------|
| | | S _{0_min} | S _{ao} | S _{ar} | S _{0_min} | S _{ao} | S _{ar} | S _{0_min} | S _{ao} | S _{ar} | S _{0_min} | S _{ao} | S _{ar} | S _{0_min} | S _{ao} | S _{ar} | S _{0_min} | S _{ao} | S _{ar} |
| 304 200 00/..V/..H | front | 0,5 | 4 | 16 | 0,5 | 3 | 16 | 0,5 | 4 | 16 | 0,5 | 4 | 17 | 0,5 | 4 | 15 | 3 | 7 | 23 |
| 304 200 00 S/..VS/..SH | | 3 | 7 | 20 | 3 | 7 | 20 | 3 | 7 | 23 | 0,5 | 6 | 21 | 0,5 | 6 | 20 | 5 | 10 | 28 |

S_{0_min} = minimum switching distance (mm), S_{ao} = operating distance (mm), S_{ar} = assured switch-off distance (mm)

Características do artigo

| Attribute | 171V62AY | 171V62A0D | 171271AY | 171271AZ | 171271A0E | 171271 ▶ |
|---|-------------|-----------|----------|-----------------|-----------|----------|
| Min. switching voltage | 19.2 V DC | | | | | |
| Max. switching voltage | 28.8 V DC | | | | | |
| Max. switching current | 0.1 A | | | | | - |
| Max. switching current with LED | - | | | 0.02 A | | - |
| Max. switching power | 3 W | | | | | |
| Switching frequency | 5 Hz | | | | | |
| Assured switching distance (Sao) | 3.5 mm | | 4 mm | | | |
| Assured switch-off distance (Sar) | 16 mm | | | | | |
| Minimum switching distance (S0 min) | 0.5 mm | | | | | |
| LED display | No | | | single-coloured | | No |
| Actuation | front | | | | | |
| Switching principle | magnetic | | | | | |
| Series resistor | 22 Ohm | | | | | |
| Technology | Reed | | | | | |
| Contact form | NO/NO | | NO/NC | | | |
| Pollution degree | 3 | | | | | |
| Protection class | III | | | | | |
| Coding acc. to EN ISO 14119 | Low | | | | | |
| B10d acc. to EN ISO 13849-1 | 20000000 | | | | | |
| Type acc. to EN ISO 14119 | 4 | | | | | |
| Mission time in years | 20 a | | | | | |
| Structure acc. to EN ISO 13849-1 | Two-channel | | | | | |
| Housing design | cylindrical | | | | | |
| Dimensions | M30 x 37 mm | | | | | |
| Minimum installation distance (between two sensors) | 50 mm | | | | | |
| cannot be mounted flush | yes | | | | | |
| Detent present | no | | | | | |
| Housing material | PBT | | | | | |

| Attribute | 171V62AY | 171V62A0D | 171271AY | 171271AZ | 171271A0E | 171271 ▶ |
|--|---|-------------------|---|-------------------|-------------------|-------------------|
| Cable material | - | | | | | PVC |
| Nut material | PBT | | | | | |
| Housing colour | schwarz | | | | | |
| Protection class | IP67 DIN EN 60529 | IP65 DIN EN 60529 | IP67 DIN EN 60529 | | IP65 DIN EN 60529 | IP67 DIN EN 60529 |
| Protection class, connector | IP67 DIN EN 60529 (screwed) - IP65 DIN EN 60529 (plugged) | IP65 DIN EN 60529 | IP67 DIN EN 60529 (screwed) - IP65 DIN EN 60529 (plugged) | IP67 DIN EN 60529 | IP65 DIN EN 60529 | - |
| Operating temperature min. | -25 °C | | | | | |
| Max. operating temperature | 75 °C | | | | | |
| Min. cable temperature range, moving | - | | | | | -5 °C |
| Max. cable temperature range, moving | - | | | | | 70 °C |
| Min. cable temperature range, fixed installation | - | | | | | -25 °C |
| Max. cable temperature range, fixed installation | - | | | | | 70 °C |
| Shock resistance (Norm) | 30g / 11ms | | | | | |
| Vibration resistance (Norm) | 10 - 55Hz | | | | | |
| Min. storage temperature | -25 °C | | | | | - |
| Max. storage temperature | 75 °C | | | | | - |
| Mounting type | Fastening nut | | | | | |
| Thread | M30 | | | | | |
| Torque for nuts | 10 N m | | | | | |
| Installation | arbitrary | | | | | |
| Weight | - | | | | | 60 g |
| Connector type | M12x1 - 4 polig | M8x1 - 4 polig | M12x1 - 4 polig | | M8x1 - 4 polig | - |
| Cable length | - | | | | | 1 m |
| Number of strands | - | | | | | 4 |
| Wire cross section | - | | | | | 0.25 mm² |
| Cable type | - | | | | | LiYY 4x0,25 |
| Cable colour | - | | | | | grau |
| CE label | yes | | | | | no |
| Certified in accordance with | ETL | | | | | |

| Attribute | 171V62AY | 171V62A0D | 171271AY | 171271AZ | 171271A0E | 171271 ► |
|--------------------|----------|-----------|----------|----------|-----------|----------|
| Possible actuators | 30420000 | | | | | |

| Attribute | 171271AA | 171271A0D | 171562 | 171571 | 171571AA | 17127118 ▶ |
|---|-----------------|-----------|----------------------------|--------|-----------------|------------|
| Min. switching voltage | 19.2 V DC | | | | | |
| Max. switching voltage | 28.8 V DC | | | | | |
| Max. switching current | 0.1 A | | | | | - |
| Max. switching current with LED | 0.02 A | - | | | 0.02 A | - |
| Max. switching power | 3 W | | | | | |
| Switching frequency | 5 Hz | | | | | |
| Assured switching distance (Sao) | 4 mm | | | | | 7 mm |
| Assured switch-off distance (Sar) | 16 mm | | 18 mm | 15 mm | | 23 mm |
| Minimum switching distance (S0 min) | 0.5 mm | | | | | 3 mm |
| LED display | single-coloured | No | | | single-coloured | No |
| Actuation | front | | | | | |
| Switching principle | magnetic | | | | | |
| Series resistor | 22 Ohm | | | | | |
| Technology | Reed | | | | | |
| Contact form | NO/NC | | NO/NO/NO (Kontrollkontakt) | | | NO/NC |
| Pollution degree | 3 | | | | | |
| Protection class | III | | | | | |
| Coding acc. to EN ISO 14119 | Low | | | | | |
| B10d acc. to EN ISO 13849-1 | 20000000 | 4000000 | 20000000 | | | |
| Type acc. to EN ISO 14119 | 4 | | | | | |
| Mission time in years | 20 a | | | | | |
| Structure acc. to EN ISO 13849-1 | Two-channel | | | | | |
| Housing design | cylindrical | | | | | |
| Dimensions | M30 x 37 mm | | | | | |
| Minimum installation distance (between two sensors) | 50 mm | | | | | |
| cannot be mounted flush | yes | | | | | |
| Detent present | no | | | | | |
| Housing material | PBT | | | | | |
| Cable material | PVC | - | PVC | | | |

| Attribute | 171271AA | 171271A0D | 171562 | 171571 | 171571AA | 17127118 ▶ |
|--|-------------------|-------------------|-------------------|--------|----------|-------------|
| Nut material | PBT | | | | | |
| Housing colour | schwarz | | | | | |
| Protection class | IP67 DIN EN 60529 | IP65 DIN EN 60529 | IP67 DIN EN 60529 | | | |
| Protection class, connector | - | IP65 DIN EN 60529 | - | | | |
| Operating temperature min. | -25 °C | | | | | |
| Max. operating temperature | 75 °C | | 70 °C | | | 75 °C |
| Min. cable temperature range, moving | -5 °C | - | -10 °C | | | -5 °C |
| Max. cable temperature range, moving | 70 °C | - | 105 °C | | | 70 °C |
| Min. cable temperature range, fixed installation | -25 °C | - | -30 °C | | | -25 °C |
| Max. cable temperature range, fixed installation | 70 °C | - | 105 °C | | | 70 °C |
| Shock resistance (Norm) | 30g / 11ms | | | | | |
| Vibration resistance (Norm) | 10 - 55Hz | | | | | |
| Min. storage temperature | -25 °C | | | | | - |
| Max. storage temperature | 75 °C | | 70 °C | | | - |
| Mounting type | Fastening nut | | | | | |
| Thread | M30 | | | | | |
| Torque for nuts | 10 N m | | | | | |
| Installation | arbitrary | | | | | |
| Weight | 60 g | - | 60 g | | | |
| Connector type | - | M8x1 - 4 polig | - | | | |
| Cable length | 1 m | - | 1 m | | | |
| Number of strands | 4 | - | 6 | | | 4 |
| Wire cross section | 0.25 mm² | - | 0.22 mm² | | | 0.25 mm² |
| Cable type | LiYY 4x0,25 | - | LiYY 6x0,25 | | | LiYY 4x0,25 |
| Cable colour | grau | - | schwarz | | | grau |
| CE label | yes | | | | | no |
| Certified in accordance with | ETL | | | | | |
| Possible actuators | 30420000 | | | | | |

| Attribute | 171V62 | 171V62A0DPC | 171271A0DPC | 171V62PC | 171271PC |
|---|-------------|-------------|-------------|----------|----------|
| Min. switching voltage | 19.2 V DC | | | | |
| Max. switching voltage | 28.8 V DC | | | | |
| Max. switching current | 0.1 A | | | | - |
| Max. switching current with LED | - | | | | |
| Max. switching power | 3 W | | | | |
| Switching frequency | 5 Hz | | | | |
| Assured switching distance (Sao) | 3.5 mm | | 4 mm | 3.5 mm | 4 mm |
| Assured switch-off distance (Sar) | 16 mm | | | | |
| Minimum switching distance (S0 min) | 0.5 mm | | | | |
| LED display | No | | | | |
| Actuation | front | | | | |
| Switching principle | magnetic | | | | |
| Series resistor | 22 Ohm | | | | |
| Technology | Reed | | | | |
| Contact form | NO/NO | | NO/NC | NO/NO | NO/NC |
| Pollution degree | 3 | | | | |
| Protection class | III | | | | |
| Coding acc. to EN ISO 14119 | Low | | | | |
| B10d acc. to EN ISO 13849-1 | 20000000 | | 4000000 | 20000000 | |
| Type acc. to EN ISO 14119 | 4 | | | | |
| Mission time in years | 20 a | | | | |
| Structure acc. to EN ISO 13849-1 | Two-channel | | | | |
| Housing design | cylindrical | | | | |
| Dimensions | M30 x 37 mm | | | | |
| Minimum installation distance (between two sensors) | 50 mm | | | | |
| cannot be mounted flush | yes | | | | |
| Detent present | no | | | | |
| Housing material | PBT | | | | |
| Cable material | PVC | - | | PVC | |
| Nut material | PBT | | | | |

| Attribute | 171V62 | 171V62A0DPC | 171271A0DPC | 171V62PC | 171271PC |
|--|-------------------|-------------------|-------------|-------------------|----------|
| Housing colour | schwarz | | | | |
| Protection class | IP67 DIN EN 60529 | IP65 DIN EN 60529 | | IP67 DIN EN 60529 | |
| Protection class, connector | - | IP65 DIN EN 60529 | | - | |
| Operating temperature min. | -25 °C | | | | |
| Max. operating temperature | 75 °C | | | | |
| Min. cable temperature range, moving | -5 °C | - | | -5 °C | |
| Max. cable temperature range, moving | 70 °C | - | | 70 °C | |
| Min. cable temperature range, fixed installation | -25 °C | - | | -25 °C | |
| Max. cable temperature range, fixed installation | 70 °C | - | | 70 °C | |
| Shock resistance (Norm) | 30g / 11ms | | | | |
| Vibration resistance (Norm) | 10 - 55Hz | | | | |
| Min. storage temperature | -25 °C | | | | - |
| Max. storage temperature | 75 °C | | | | - |
| Mounting type | Fastening nut | | | | |
| Thread | M30 | | | | |
| Torque for nuts | 10 N m | | | | |
| Installation | arbitrary | | | | |
| Weight | 60 g | - | | 60 g | |
| Connector type | - | M8x1 - 4 polig | | - | |
| Cable length | 1 m | - | | 1 m | |
| Number of strands | 4 | - | | 4 | |
| Wire cross section | 0.25 mm² | - | | 0.25 mm² | |
| Cable type | LiYY 4x0,25 | - | | LiYY 4x0,25 | |
| Cable colour | grau | - | | grau | |
| CE label | yes | | | | no |
| Certified in accordance with | ETL | | | | |
| Possible actuators | 30420000 | | | | |