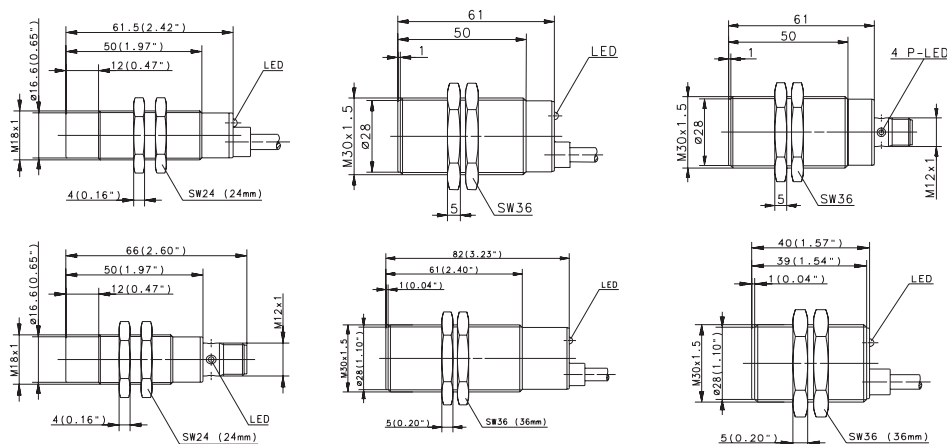


# Inductive Sensors (Type M18, M30)

| Type                     | M18           |               | M30       |           | M30           |           |
|--------------------------|---------------|---------------|-----------|-----------|---------------|-----------|
| Type of installation     | Non-flush     | Non-flush     | Flush     | Flush     | Flush         | Flush     |
| Nominal sensing distance | 16 mm         | 16 mm         | 10 mm     | 10 mm     | 10 mm         | 10 mm     |
| Type of connection       | Cable 2 m     | Connector M12 | Cable 2 m | Cable 2 m | Connector M12 | Cable 2 m |
| Special feature          | Sensing dist. | Sensing dist. |           |           |               |           |



|          |    |                                                                |                                  |                                    |                                                                  |                                   |                                                                      |
|----------|----|----------------------------------------------------------------|----------------------------------|------------------------------------|------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------|
| PNP      | DC | NO contact<br>Type<br>NC contact<br>Type<br>Antivalent NO/NC   | 6502906018<br>KIN-M18PS/016-KL2E | 6502941004<br>KIN-M18PS/016-KLS12E | 6932907001<br>KIN-M18PS/016-KLS12E                               | 6932907002<br>KIB-M30PS/010-KLS12 | 6502907003<br>KIB-M30PS/010-KL2V<br>6502707001<br>KIB-M30PÖ/010-KL2V |
| NPN      | DC | NO contact<br>Type<br>NC contact<br>Antivalent NO/NC           |                                  |                                    |                                                                  |                                   |                                                                      |
| PNP/NPN  | DC | NO/NC prog.<br>Type<br>push-pull operation                     |                                  |                                    |                                                                  |                                   |                                                                      |
| NAMUR    | DC |                                                                |                                  |                                    |                                                                  |                                   |                                                                      |
| Analogue | DC | Type                                                           |                                  |                                    |                                                                  |                                   |                                                                      |
| 2-wire   | DC | NO contact<br>NC contact<br>Type                               |                                  |                                    |                                                                  |                                   |                                                                      |
|          | AC | NO contact<br>Type<br>NC contact<br>Type<br>Changeover contact |                                  |                                    | 6503507378<br>KIB-M30AS/010-L2<br>6503407240<br>KIB-M30AÖ/010-L2 |                                   |                                                                      |

## Technical data

|                                      |       |           |           |           |             |           |           |
|--------------------------------------|-------|-----------|-----------|-----------|-------------|-----------|-----------|
| Rated operating voltage              | $U_B$ | 10–36 VDC | 10–36 VDC | 10–36 VDC | 20–250 V AC | 10–36 VDC | 10–60 VDC |
| Rated operating current              | $I_B$ | 200 mA    | 200 mA    | 200 mA    | 400 mA      | 200 mA    | 200 mA    |
| Switching frequency (max)            | F     | 200 Hz    | 200 Hz    | 300 Hz    | 10 Hz       | 300 Hz    | 300 Hz    |
| Short circuit-protection             |       | Cyclic    | Cyclic    | Cyclic    | –           | Cyclic    | Cyclic    |
| Function/operating voltage indicator |       | LED/–     | LED/–     | LED/–     | LED/–       | LED/–     | LED/–     |
| Sensing distance, adjustable         |       |           |           |           |             |           |           |

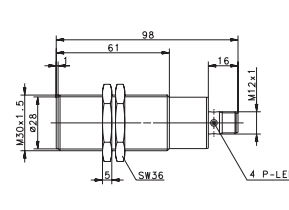
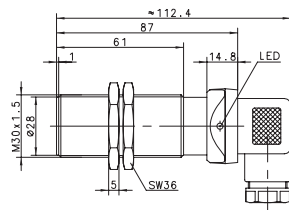
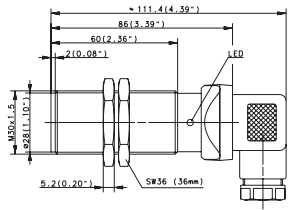
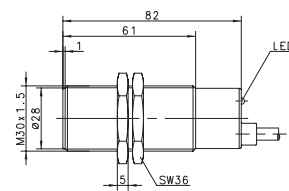
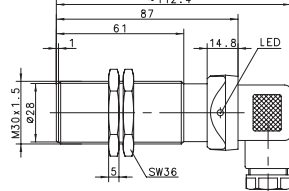
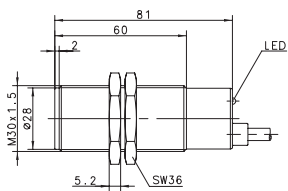
## Mechanical data

|                                                       |                         |             |                         |                         |             |                         |
|-------------------------------------------------------|-------------------------|-------------|-------------------------|-------------------------|-------------|-------------------------|
| Ambient temperature (min/max)                         | –25°C/+70°C             | –25°C/+70°C | –25°C/+70°C             | –25°C/+70°C             | –25°C/+70°C | –25°C/+70°C             |
| Protection class in accordance with IEC 529, EN 60529 | IP67                    | IP67        | IP67                    | IP67                    | IP67        | IP67                    |
| Enclosure material                                    | CuZn39Pb3               | CuZn39Pb3   | CuZn39Pb3               | CuZn39Pb3               | CuZn39Pb3   | CuZn39Pb3               |
| Connection                                            | 3 x 0.5 mm <sup>2</sup> | M12 x 1     | 3 x 0.5 mm <sup>2</sup> | 2 x 0.5 mm <sup>2</sup> | M12 x 1     | 3 x 0.5 mm <sup>2</sup> |

Please refer to Accessories for cable couplers, mounting brackets and sensor tester.



|           |               |               |               |
|-----------|---------------|---------------|---------------|
| M30       | M30           | M30           |               |
| Flush     | Flush         | Flush         | Flush         |
| 10 mm     | 10 mm         | 10 mm         | 10 mm         |
| Cable 2 m | DIN Connector | DIN Connector | DIN Connector |
| Plastic   | Plastic       | Temperature   | Temperature   |



|                                 |                                  |                                  |                                                                    |                                    |                                    |  |  |
|---------------------------------|----------------------------------|----------------------------------|--------------------------------------------------------------------|------------------------------------|------------------------------------|--|--|
| 6502722708<br>KIB-T30PÖ/010-KL2 |                                  | 6502939001<br>KIB-M30PS/010-KLSD |                                                                    | 6502907013<br>KIB-M30PS/010-KL2PUT | 6502939006<br>KIB-M30PS/010-KLS12T |  |  |
|                                 |                                  |                                  |                                                                    |                                    |                                    |  |  |
|                                 | 6502822862<br>KIB-T30PP/010-KLSD |                                  |                                                                    |                                    |                                    |  |  |
|                                 |                                  |                                  |                                                                    |                                    |                                    |  |  |
|                                 |                                  |                                  |                                                                    |                                    |                                    |  |  |
|                                 |                                  |                                  | 6503535960<br>KIB-M30AS/010-LSD<br>6503435959<br>KIB-M30AÖ/010-LSD |                                    |                                    |  |  |

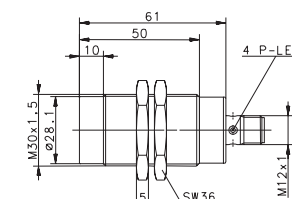
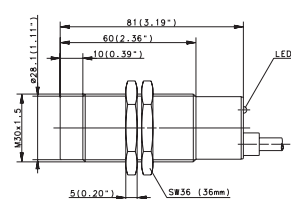
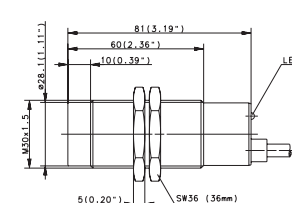
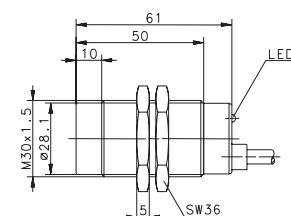
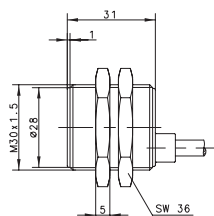
|           |           |           |             |           |           |  |
|-----------|-----------|-----------|-------------|-----------|-----------|--|
| 10–60 VDC | 10–60 VDC | 10–60 VDC | 20–265 V AC | 10–30 VDC | 10–30 VDC |  |
| 200 mA    | 200 mA    | 200 mA    | 500 mA      | 200 mA    | 200 mA    |  |
| 300 Hz    | 300 Hz    | 300 Hz    | 20 Hz       | 300 Hz    | 300 Hz    |  |
| Cyclic    | Cyclic    | Cyclic    | –           | Cyclic    | Cyclic    |  |
| LED/–     | LED/–     | LED/–     | LED/–       | LED/–     | LED/–     |  |

|                         |             |             |             |                         |             |  |
|-------------------------|-------------|-------------|-------------|-------------------------|-------------|--|
| –25°C/+70°C             | –25°C/+70°C | –25°C/+70°C | –25°C/+70°C | –40°C/+100°             | –40°C/+100° |  |
| IP67                    | IP65        | IP65        | IP65        | IP67                    | IP67        |  |
| PA, red                 | PA, red     | CuZn39Pb3   | CuZn39Pb3   | CuZn39Pb3               | CuZn39Pb3   |  |
| 3 x 0.5 mm <sup>2</sup> | DIN 43650   | DIN 43650   | DIN 43650   | 3 x 0.5 mm <sup>2</sup> | M12 x 1     |  |



# Inductive Sensors (Type M30)

| Type                     | M30       | M30       | M30       | M30           |
|--------------------------|-----------|-----------|-----------|---------------|
| Type of installation     | Flush     | Non-flush | Non-flush | Non-flush     |
| Nominal sensing distance | 10 mm     | 15 mm     | 15 mm     | 15 mm         |
| Type of connection       | Cable 2 m | Cable 2 m | Cable 2 m | Connector M12 |
| Special feature          | NAMUR     |           |           |               |



|          |    |                                                                      |                                 |                                 |                                                                        |
|----------|----|----------------------------------------------------------------------|---------------------------------|---------------------------------|------------------------------------------------------------------------|
| PNP      | DC | NO contact<br>Type<br>NC contact<br>Type<br>Antivalent NO/NC<br>Type | 6932908001<br>KIN-M30PS/015-KL2 | 6502908002<br>KIN-M30PS/015-KL2 | 6932908002<br>KIN-M30PS/015-KLS12<br>6602308459<br>KIN-M30NS/015-KLS12 |
| NPN      | DC | NO contact<br>Type<br>NC contact<br>Type<br>Antivalent NO/NC         |                                 | 6502808001<br>KIN-M30PU/015-KL2 |                                                                        |
| PNP/NPN  | DC | NO/NC prog.<br>Type<br>push-pull operation                           |                                 | 6502308001<br>KIN-M30NS/015-KL2 |                                                                        |
| NAMUR    | DC | Type                                                                 | 6501699012<br>KIB-M30EA/010-2   |                                 |                                                                        |
| Analogue | DC | Type                                                                 |                                 |                                 |                                                                        |
| 2-wire   | DC | NO contact<br>NC contact                                             |                                 |                                 | 6503508246<br>KIN-M30AS/015-L2,5                                       |
|          | AC | NO contact<br>Type<br>NC contact<br>Changeover contact               |                                 |                                 |                                                                        |

## Technical data

|                                      |       |          |           |           |             |           |
|--------------------------------------|-------|----------|-----------|-----------|-------------|-----------|
| Rated operating voltage              | $U_B$ | 5–25 VDC | 10–36 VDC | 10–60 VDC | 20–250 V AC | 10–36 VDC |
| Rated operating current              | $I_B$ | –        | 200 mA    | 200 mA    | 400 mA      | 200 mA    |
| Switching frequency (max)            | F     | 300 Hz   | 100 Hz    | 100 Hz    | 10 Hz       | 100 Hz    |
| Short circuit-protection             |       | –        | Cyclic    | Cyclic    | –           | Cyclic    |
| Function/operating voltage indicator |       | –/–      | LED/–     | LED/–     | LED/–       | LED/–     |
| Sensing distance, adjustable         |       |          |           |           |             |           |

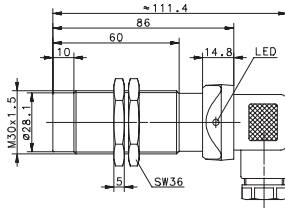
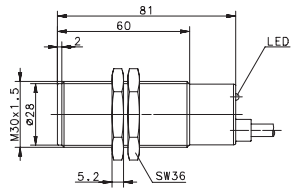
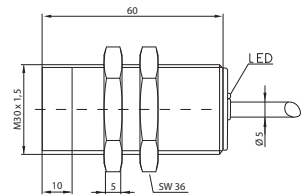
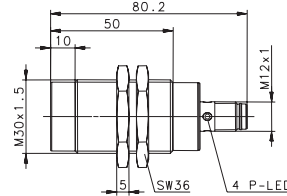
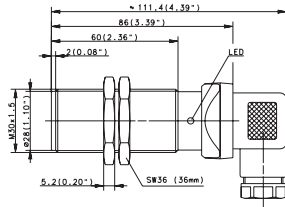
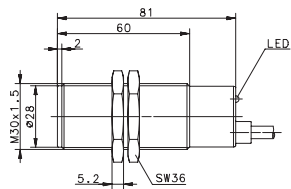
## Mechanical data

|                                                       |                         |                         |                         |                         |             |
|-------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------|
| Ambient temperature (min/max)                         | –25°C/+70°C             | –25°C/+70°C             | –25°C/+70°C             | –25°C/+70°C             | –25°C/+70°C |
| Protection class in accordance with IEC 529, EN 60529 | IP67                    | IP67                    | IP67                    | IP67                    | IP67        |
| Enclosure material                                    | CuZn39Pb3               | CuZn39Pb3               | CuZn39Pb3               | CuZn39Pb3               | CuZn39Pb3   |
| Connection                                            | 2 x 0.5 mm <sup>2</sup> | 3 x 0.5 mm <sup>2</sup> | 3 x 0.5 mm <sup>2</sup> | 2 x 0.5 mm <sup>2</sup> | M12 x 1     |

Please refer to Accessories for cable couplers, mounting brackets and sensor tester.



| M30                |                    | M30                |                    | M30                | M30                |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Non-flush<br>15 mm | Non-flush<br>15 mm | Non-flush<br>15 mm | Non-flush<br>15 mm | Non-flush<br>15 mm | Non-flush<br>40 mm |
| Cable 2 m          | Cable 2.5 m        | DIN Connector      | DIN Connector      | Connector M12      | Cable 2 m          |
| Plastic            | Plastic            | Plastic            |                    | Analogue           | Sensing dist.      |



|                                 |                                  |                                  |                                  |                               |  |                                  |  |
|---------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--|----------------------------------|--|
| 6502923981<br>KIN-T30PS/015-KL2 |                                  |                                  | 6502935001<br>KIN-M30PS/015-KLSD |                               |  | 6502908009<br>KIN-M30PS/040-KL2E |  |
|                                 |                                  |                                  |                                  |                               |  |                                  |  |
|                                 |                                  | 6502836860<br>KIN-T30PP/015-KLSD |                                  |                               |  |                                  |  |
|                                 |                                  |                                  |                                  |                               |  |                                  |  |
|                                 |                                  |                                  |                                  | 6502008001<br>KIN-M30PA/015-2 |  |                                  |  |
|                                 | 6503523956<br>KIN-T30AS/015-L2,5 |                                  |                                  |                               |  |                                  |  |

|                     |                       |                     |                     |                     |                     |
|---------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| 10-60 VDC<br>200 mA | 20-250 V AC<br>400 mA | 10-60 VDC<br>200 mA | 10-60 VDC<br>200 mA | 10-36 VDC<br>200 mA | 10-30 VDC<br>200 mA |
| 100 Hz              | 10 Hz                 | 100 Hz              | 100 Hz              | 100 Hz              | 100 Hz              |
| Cyclic              | -                     | Cyclic              | Cyclic              | Cyclic              | Cyclic              |
| LED/-               | LED/-                 | LED/-               | LED/-               | LED/-               | LED/-               |

|             |             |             |             |             |              |
|-------------|-------------|-------------|-------------|-------------|--------------|
| -25°C/+70°C | -25°C/+70°C | -25°C/+70°C | -25°C/+70°C | -25°C/+70°C | -25°C/+70°C  |
| IP67        | IP67        | IP65        | IP65        | IP67        | IP67         |
| PA, red     | PA, red     | PA, red     | CuZn39Pb3   | CuZn39Pb3   | CuZn39Pb3    |
| 3 x 0.5 mm² | 2 x 0.5 mm² | DIN 43650   | DIN 43650   | M12 x 1     | 3 x 0.34 mm² |



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