



INDUCTIVE SENSORS CYLINDER DC

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INDUCTIVE SENSORS CYLINDER DC

DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

1 = Working principle

| | | | |
|----------|---------------------|-----------|-------------------|
| A | Acoustic | | |
| B | Acceleration sensor | | |
| C | Capacitive | | |
| D | Strain gauge sensor | | |
| H | Hall-effect | | |
| J | Inductive | JR | Inductive ring |
| | | JF | Inductive surface |
| | | JG | Inductive slot |
| | | JD | Metalface |
| M | Magnetoresistive | | |
| N | Inclination sensor | | |
| R | Reed-contact | | |
| W | Angle sensor | | |

2 = Switching distance / range

3 = Design

| | |
|----------|--|
| D | Ring housing |
| G | Cylindrical housing without thread |
| M | Cylindrical housing with metrical thread |
| Q | Square housing |

4 = Housing diameter / edge length

5 = Housing material

| | |
|----------|----------------------|
| A | Aluminium |
| E | Stainless steel |
| K | Plastic |
| M | Brass, nickel plated |
| T | PTFE |

6 = Installation

| | |
|----------|--------------|
| B | Shielded |
| N | Non shielded |

7 = Tube length

8 = Operating voltage

| | |
|-----------|--------------------------------|
| AZ | AC alternating current voltage |
| D | DC direct current voltage |
| VZ | AC/DC all voltages |

9 = Type of output signal

| | | | |
|------------|-------------------|------------|----------------|
| AN | Analog | ANI | Current output |
| | | ANU | Voltage output |
| CAN | CAN-Bus interface | | |
| N | NPN | | |
| NA | Namur | | |
| P | PNP | | |
| Z | Two wire | | |

10 = Function

| | |
|----------|----------------|
| A | Changeover |
| I | Impulse output |
| Ö | N.C. |
| S | N.O. |
| U | Switchable |

11 = Connection

| | |
|--------------|------------------------|
| V1 | M8 screw-/snap-in |
| V2 | M12 metal |
| V2/1 | M12 plastic |
| V3 | M5 metal |
| V4 | Amphenol Tuchel |
| V6 | Brad Harrison |
| V7 | Valve connector type A |
| V8 | M8 snap-in only |
| V9 | Torson |
| V10 | Valve connector type C |
| V11 | AC connector 1/2" UNF |
| V12 | M18 plastic |
| VE | Euchner connector |
| RS232 | Data interface |
| PG | Thread joint PG |
| Mxx | Thread joint metrical |

others as requested

12 = Additional marks

| | |
|-----------|---|
| AM | Sensing face in centre |
| FE | Reduction 1 to steel / iron |
| HT | High temperature |
| NF | Reduction 1 to nonferrous metal |
| SF | Weld field immune |
| T | Enlarged temperature range |
| W | Angled sensing face / angled cable exit |
| X | Customized design with detailed description |



INDUCTIVE SENSORS CYLINDER DC

CIRCUIT DIAGRAMS

| Circuit diagram for | Cable / clamp connection | Connector V1 ... V9 |
|--------------------------------|--------------------------|---------------------|
| DPS DC PNP N.O. | | |
| DPÖ DC PNP N.C. | | |
| DPA DC PNP changeover | | |
| DPU DC NO/NC switchable | | |
| DNS DC NPN N.O. | | |
| DNÖ DC NPN N.C. | | |
| DNA DC NPN changeover | | |
| DNU DC NO/NC switchable | | |
| NA Namur EN 60947-5-6 | | |
| DZS DC two-wire N.O. | | |
| DZÖ DC two-wire N.C. | | |
| AZS/VZS AC/DC two-wire N.O. | | |
| AZÖ/VZÖ AC/DC two-wire N.C. | | |
| Analog | | |



INDUCTIVE SENSORS CYLINDER DC

CYLINDER G6,5

General data

| | |
|------------------------------|---|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | SJ1,5... 2000Hz KJ2... 3000Hz KJ3... 2500Hz |
| Hysteresis H | typ. $5\% \leq 10\%$ (SJ1,5... $\leq 15\%$) |
| Repeatability R | $\leq 2\%$ (SJ1,5... $\leq 1\%$) |
| Temperature range T_a | $-25^\circ C \dots +75^\circ C$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated (SJ1,5... stainless steel) |
| Front cap | PA 6.6 (SJ1,5... POM) |



Selection chart

| Article number | Designation brass | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|------------------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317816000 | KJ2-G6,5MB30-DPS | shielded | PNP | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317826400 | KJ2-G6,5MB30-DPÖ | shielded | PNP | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317816100 | KJ2-G6,5MB30-DNS | shielded | NPN | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317816500 | KJ2-G6,5MB30-DNÖ | shielded | NPN | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317816064 | KJ2-G6,5MB50-DPS-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317816464 | KJ2-G6,5MB50-DPÖ-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317816164 | KJ2-G6,5MB50-DNS-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317816564 | KJ2-G6,5MB50-DNÖ-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317816200 | KJ3-G6,5MN33-DPS | non shielded | PNP | 3 | 2m cable PVC 3 x 0,14mm ² | C |
| 08317816600 | KJ3-G6,5MN33-DPÖ | non shielded | PNP | 3 | 2m cable PVC 3 x 0,14mm ² | C |
| 08317816300 | KJ3-G6,5MN33-DNS | non shielded | NPN | 3 | 2m cable PVC 3 x 0,14mm ² | C |
| 08317816700 | KJ3-G6,5MN33-DNÖ | non shielded | NPN | 3 | 2m cable PVC 3 x 0,14mm ² | C |
| 08317816264 | KJ3-G6,5MN53-DPS-V1 | non shielded | PNP | 3 | connector M8 3-pole | D |
| 08317816664 | KJ3-G6,5MN53-DPÖ-V1 | non shielded | PNP | 3 | connector M8 3-pole | D |
| 08317816364 | KJ3-G6,5MN53-DNS-V1 | non shielded | NPN | 3 | connector M8 3-pole | D |
| 08317816764 | KJ3-G6,5MN53-DNÖ-V1 | non shielded | NPN | 3 | connector M8 3-pole | D |
| | Designation stainless steel | | | | | |
| 08313651564 | SJ1,5-G6,5EB45-DPA | shielded | PNP | 1,5 | 2m cable PVC 4 x 0,15mm ² | E |
| 08313651554 | SJ1,5-G6,5EB45-DNA | shielded | NPN | 1,5 | 2m cable PVC 4 x 0,15mm ² | E |

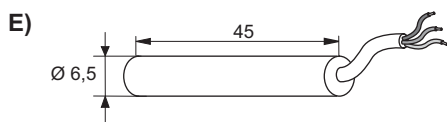
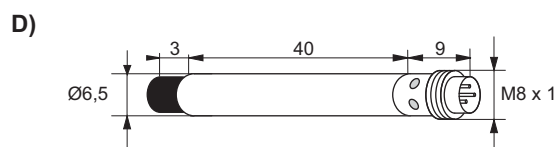
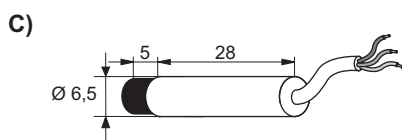
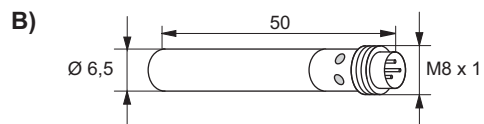
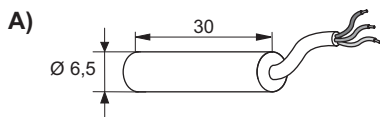
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER G6,5

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M8 - STANDARD

General data

| | |
|------------------------------|--------------------------------------|
| Operating voltage U_b | 10 ... 30V DC* |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ (SJ1,5... $\leq 1,0V$) |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | 2000Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $\leq 10\%$ (SJ1,5... $\leq 1,0\%$) |
| Temperature range T_a | -25°C ... +70°C |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated, stainless steel |
| Front cap | brass: PCP stainless steel: POM |



* KJ1,5-M8MB50-DPS-V2: 10 ... 35V DC

Selection chart

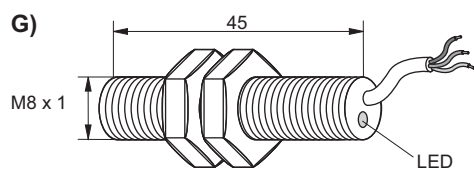
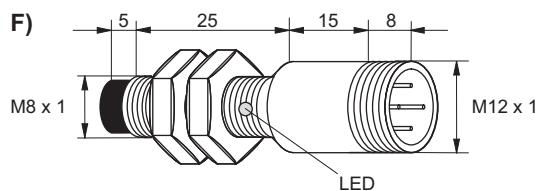
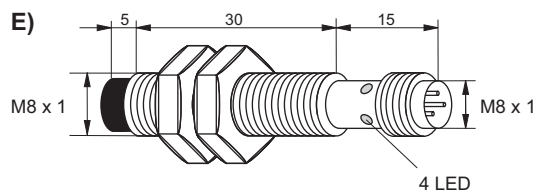
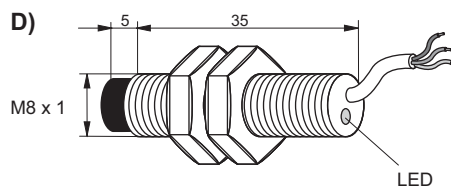
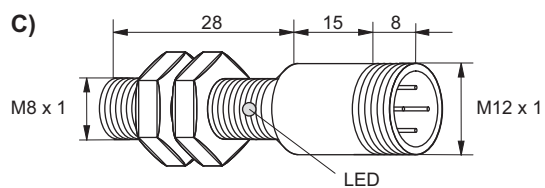
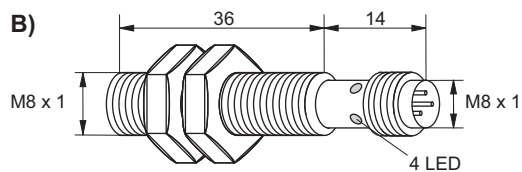
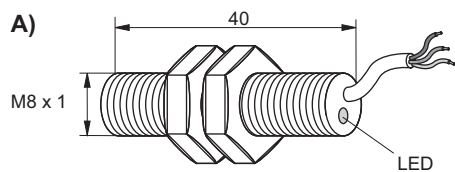
| Article number | Designation brass | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|------------------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317610200 | KJ1,5-M8MB40-DPS | shielded | PNP | 1,5 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317610300 | KJ1,5-M8MB40-DNS | shielded | NPN | 1,5 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317610264 | KJ1,5-M8MB50-DPS-V1 | shielded | PNP | 1,5 | connector M8 3-pole | B |
| 08317610364 | KJ1,5-M8MB50-DNS-V1 | shielded | NPN | 1,5 | connector M8 3-pole | B |
| 08317610265 | KJ1,5-M8MB50-DPS-V2 | shielded | PNP | 1,5 | connector M12 4-pole | C |
| 08317610365 | KJ1,5-M8MB50-DNS-V2 | shielded | NPN | 1,5 | connector M12 4-pole | C |
| 08317610400 | KJ2-M8MN40-DPS | non shielded | PNP | 2 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317610500 | KJ2-M8MN40-DNS | non shielded | NPN | 2 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317610464 | KJ2-M8MN50-DPS-V1 | non shielded | PNP | 2 | connector M8 3-pole | E |
| 08317610564 | KJ2-M8MN50-DNS-V1 | non shielded | NPN | 2 | connector M8 3-pole | E |
| 08317610465 | KJ2-M8MN50-DPS-V2 | non shielded | PNP | 2 | connector M12 4-pole | F |
| 08317610565 | KJ2-M8MN50-DNS-V2 | non shielded | NPN | 2 | connector M12 4-pole | F |
| | Designation stainless steel | | | | | |
| 08313081560 | SJ1,5-M8EB45-DPA | shielded | PNP | 1,5 | 2m cable PVC 3 x 0,15mm ² | G |
| 08313081550 | SJ1,5-M8EB45-DNA | shielded | NPN | 1,5 | 2m cable PVC 3 x 0,15mm ² | G |



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M8 - STANDARD

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M8 - ADVANCED

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ2... 3000Hz KJ3... 2500Hz |
| Hysteresis H | typ. $5\% \leq 10\%$ |
| Repeatability R | $\leq 10\%$ |
| Temperature range T_a | $-25^\circ C \dots +70^\circ C$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PCP |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|-------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317811000 | KJ2-M8MB33-DPS | shielded | PNP | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317811400 | KJ2-M8MB33-DPÖ | shielded | PNP | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317811100 | KJ2-M8MB33-DNS | shielded | NPN | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317811500 | KJ2-M8MB33-DNÖ | shielded | NPN | 2 | 2m cable PVC 3 x 0,14mm ² | A |
| 08317811064 | KJ2-M8MB50-DPS-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317811464 | KJ2-M8MB50-DPÖ-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317811164 | KJ2-M8MB50-DNS-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317811564 | KJ2-M8MB50-DNÖ-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317811050 | KJ2-M8MB58-DPS-V2 | shielded | PNP | 2 | connector M12 4-pole | C |
| 08317811450 | KJ2-M8MB58-DPÖ-V2 | shielded | PNP | 2 | connector M12 4-pole | C |
| 08317811150 | KJ2-M8MB58-DNS-V2 | shielded | NPN | 2 | connector M12 4-pole | C |
| 08317811550 | KJ2-M8MB58-DNÖ-V2 | shielded | NPN | 2 | connector M12 4-pole | C |
| 08317811200 | KJ3-M8MN33-DPS | non shielded | PNP | 3 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317811600 | KJ3-M8MN33-DPÖ | non shielded | PNP | 3 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317811300 | KJ3-M8MN33-DNS | non shielded | NPN | 3 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317811700 | KJ3-M8MN33-DNÖ | non shielded | NPN | 3 | 2m cable PVC 3 x 0,14mm ² | D |
| 08317811264 | KJ3-M8MN50-DPS-V1 | non shielded | PNP | 3 | connector M8 3-pole | E |
| 08317811664 | KJ3-M8MN50-DPÖ-V1 | non shielded | PNP | 3 | connector M8 3-pole | E |
| 08317811364 | KJ3-M8MN50-DNS-V1 | non shielded | NPN | 3 | connector M8 3-pole | E |
| 08317811764 | KJ3-M8MN50-DNÖ-V1 | non shielded | NPN | 3 | connector M8 3-pole | E |
| 08317811250 | KJ3-M8MN58-DPS-V2 | non shielded | PNP | 3 | connector M12 4-pole | F |
| 08317811650 | KJ3-M8MN58-DPÖ-V2 | non shielded | PNP | 3 | connector M12 4-pole | F |
| 08317811350 | KJ3-M8MN58-DNS-V2 | non shielded | NPN | 3 | connector M12 4-pole | F |
| 08317811750 | KJ3-M8MN58-DNÖ-V2 | non shielded | NPN | 3 | connector M12 4-pole | F |

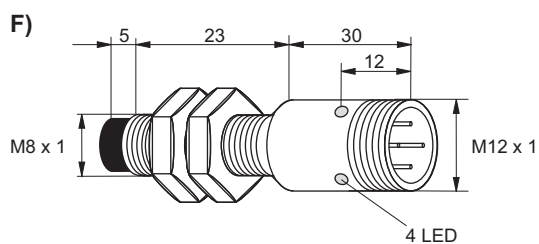
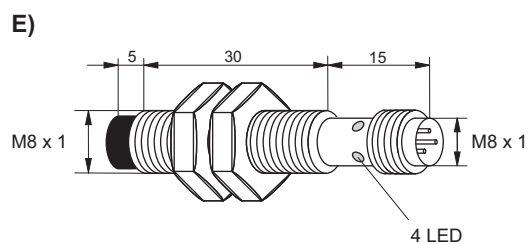
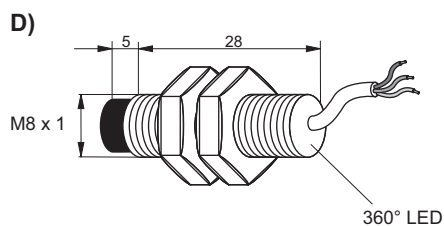
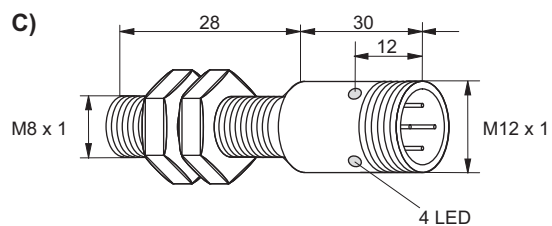
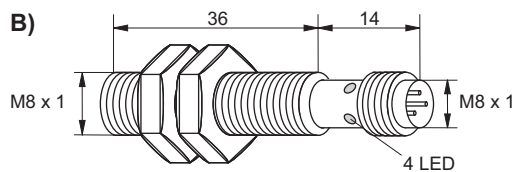
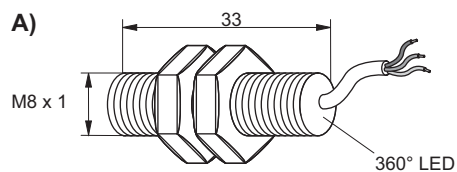
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M8 - ADVANCED

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M12 - SHORTIES

General data

| | |
|------------------------------|--------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ2... 2000Hz KJ4... 1000Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $\leq 10\%$ |
| Temperature range T_a | -25°C ... +70°C |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PA 6.6 |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------------|--------------|-------------------------|--------------------------|--------------------------------------|---------------------|
| 08317822000 | KJ2-M12MB35-DPS | shielded | PNP $\text{—} \text{—}$ | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317822100 | KJ2-M12MB35-DNS | shielded | NPN $\text{—} \text{—}$ | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317822064 | KJ2-M12MB50-DPS-V1 | shielded | PNP $\text{—} \text{—}$ | 2 | connector M8 3-pole | B |
| 08317822164 | KJ2-M12MB50-DNS-V1 | shielded | NPN $\text{—} \text{—}$ | 2 | connector M8 3-pole | B |
| 08317822065 | KJ2-M12MB50-DPS-V2 | shielded | PNP $\text{—} \text{—}$ | 2 | connector M12 4-pole | C |
| 08317822165 | KJ2-M12MB50-DNS-V2 | shielded | NPN $\text{—} \text{—}$ | 2 | connector M12 4-pole | C |
| 08310009173 | KJ4-M12MB30-DPS | shielded | PNP $\text{—} \text{—}$ | 4 | 2m cable PVC 3 x 0,34mm ² | D |
| 08310000288 | KJ4-M12MB50-DPS-V1 | shielded | PNP $\text{—} \text{—}$ | 4 | connector M8 3-pole | E |
| 08317824950 | KJ4-M12MB50-DPS-V2 | shielded | PNP $\text{—} \text{—}$ | 4 | connector M12 4-pole | C |
| 08317822200 | KJ4-M12MN35-DPS | non shielded | PNP $\text{—} \text{—}$ | 4 | 2m cable PVC 3 x 0,14mm ² | F |
| 08317822300 | KJ4-M12MN35-DNS | non shielded | NPN $\text{—} \text{—}$ | 4 | 2m cable PVC 3 x 0,14mm ² | F |
| 08317822264 | KJ4-M12MN50-DPS-V1 | non shielded | PNP $\text{—} \text{—}$ | 4 | connector M8 3-pole | G |
| 08317822364 | KJ4-M12MN50-DNS-V1 | non shielded | NPN $\text{—} \text{—}$ | 4 | connector M8 3-pole | G |
| 08317822265 | KJ4-M12MN50-DPS-V2 | non shielded | PNP $\text{—} \text{—}$ | 4 | connector M12 4-pole | H |
| 08317822365 | KJ4-M12MN50-DNS-V2 | non shielded | NPN $\text{—} \text{—}$ | 4 | connector M12 4-pole | H |
| 0831xxxxxxx | KJ6-M12MN30-DPS | non shielded | PNP $\text{—} \text{—}$ | 6 | 2m cable PVC 3 x 0,34mm ² | I |
| 08310000736 | KJ6-M12MN50-DPS-V1 | non shielded | PNP $\text{—} \text{—}$ | 6 | connector M8 3-pole | G |
| 0831xxxxxxx | KJ6-M12MN50-DPS-V2 | non shielded | PNP $\text{—} \text{—}$ | 6 | connector M12 4-pole | H |

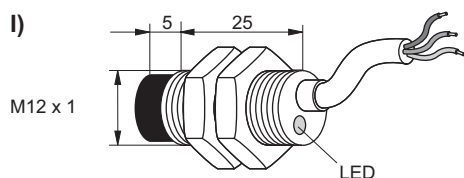
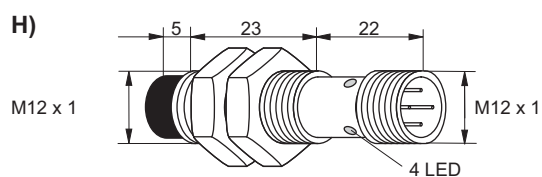
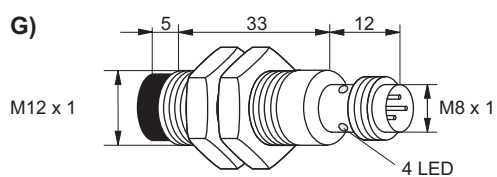
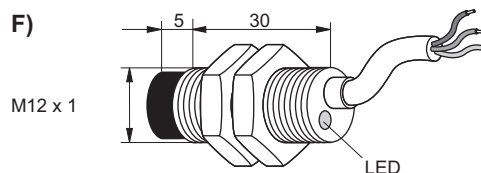
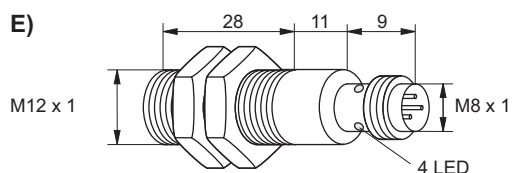
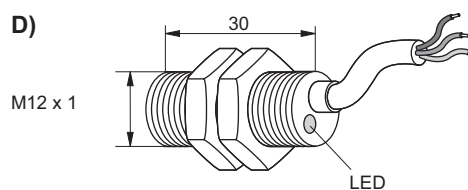
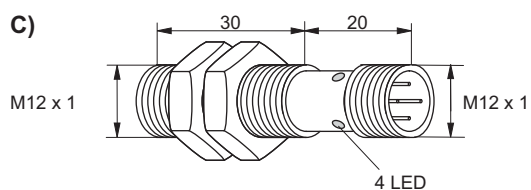
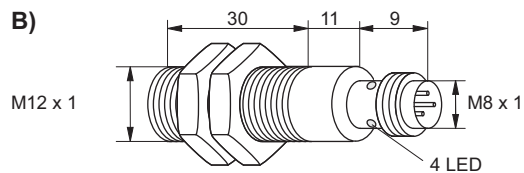
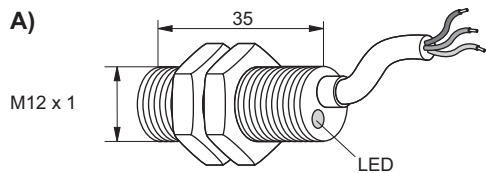
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M12 - SHORTIES

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M12 - STANDARD

General data

| | |
|------------------------------|---|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ2... 1000Hz (antivalent 2000Hz) KJ4... 800Hz (antivalent 1000Hz) |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $\leq 10\%$ |
| Temperature range T_a | -25°C ... +70°C |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | nach EN 60947-5-2 |
| Switching state | LED |
| Housing material | Messing vernickelt |
| Front cap | PA 6.6 |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317624000 | KJ2-M12MB40-DPS | shielded | PNP | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317624400 | KJ2-M12MB40-DPÖ | shielded | PNP | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317624100 | KJ2-M12MB40-DNS | shielded | NPN | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317624500 | KJ2-M12MB40-DNÖ | shielded | NPN | 2 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317624064 | KJ2-M12MB60-DPS-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317624464 | KJ2-M12MB60-DPÖ-V1 | shielded | PNP | 2 | connector M8 3-pole | B |
| 08317624164 | KJ2-M12MB60-DNS-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317624564 | KJ2-M12MB60-DNÖ-V1 | shielded | NPN | 2 | connector M8 3-pole | B |
| 08317624065 | KJ2-M12MB60-DPS-V2 | shielded | PNP | 2 | connector M12 4-pole | C |
| 08317624465 | KJ2-M12MB60-DPÖ-V2 | shielded | PNP | 2 | connector M12 4-pole | C |
| 08317624165 | KJ2-M12MB60-DNS-V2 | shielded | NPN | 2 | connector M12 4-pole | C |
| 08317624565 | KJ2-M12MB60-DNÖ-V2 | shielded | NPN | 2 | connector M12 4-pole | C |
| 08317626200 | KJ2-M12MB60-DPA | shielded | PNP | 2 | 2m cable PVC 4 x 0,34mm ² | D |
| 08310000705 | KJ2-M12MB60-DNA | shielded | PNP | 2 | 2m cable PVC 4 x 0,34mm ² | D |
| 08317626265 | KJ2-M12MB80-DPA-V2 | shielded | NPN | 2 | connector M12 4-pole | E |
| 0831xxxxxxx | KJ2-M12MB80-DNA-V2 | shielded | NPN | 2 | connector M12 4-pole | E |
| 08317624200 | KJ4-M12MN40-DPS | non shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | F |
| 08317624600 | KJ4-M12MN40-DPÖ | non shielded | NPN | 4 | 2m cable PVC 3 x 0,34mm ² | F |
| 08317624300 | KJ4-M12MN40-DNS | non shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | F |
| 08317624700 | KJ4-M12MN40-DNÖ | non shielded | NPN | 4 | 2m cable PVC 3 x 0,34mm ² | F |
| 08317624264 | KJ4-M12MN60-DPS-V1 | non shielded | PNP | 4 | connector M8 3-pole | G |
| 08317624664 | KJ4-M12MN60-DPÖ-V1 | non shielded | PNP | 4 | connector M8 3-pole | G |
| 08317624364 | KJ4-M12MN60-DNS-V1 | non shielded | NPN | 4 | connector M8 3-pole | G |
| 08317624764 | KJ4-M12MN60-DNÖ-V1 | non shielded | NPN | 4 | connector M8 3-pole | G |

Continuation on the next page. Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

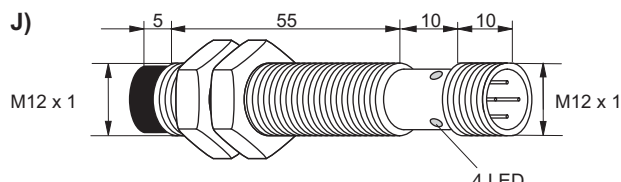
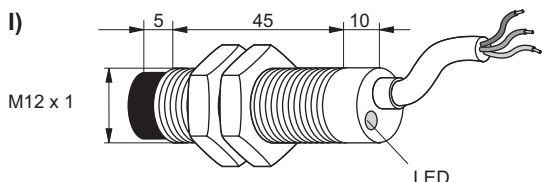
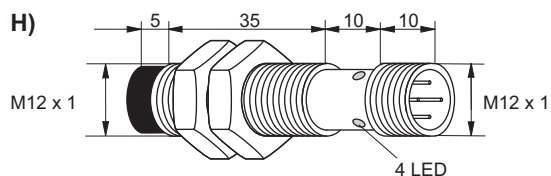
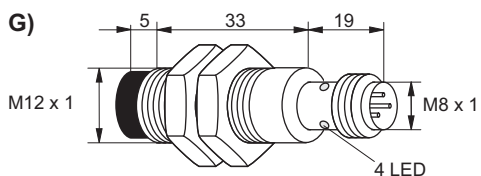
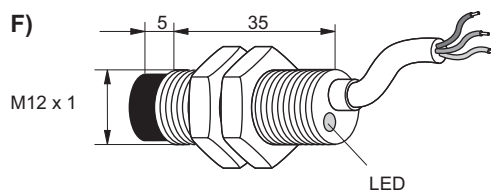
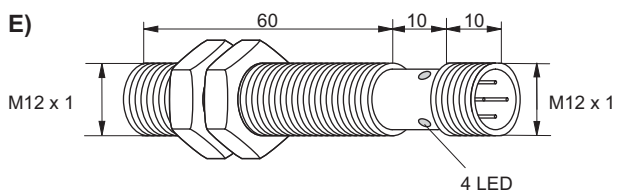
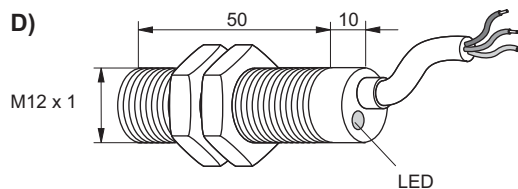
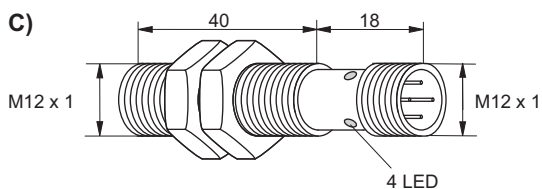
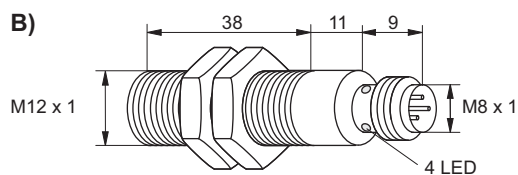
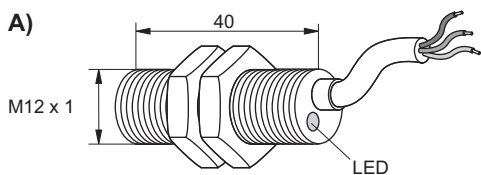
CYLINDER M12 - STANDARD

Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing |
|----------------|---------------------------|--------------|---------------|--------------------------|--------------------------------------|---------|
| 08317624265 | KJ4-M12MN60-DPS-V2 | non shielded | PNP | 4 | connector M12 4-pole | H |
| 08317624665 | KJ4-M12MN60-DPÖ-V2 | non shielded | PNP | 4 | connector M12 4-pole | H |
| 08317624365 | KJ4-M12MN60-DNS-V2 | non shielded | NPN | 4 | connector M12 4-pole | H |
| 08317624765 | KJ4-M12MN60-DNÖ-V2 | non shielded | NPN | 4 | connector M12 4-pole | H |
| 08317626300 | KJ4-M12MN60-DPA | non shielded | PNP | 4 | 2m cable PVC 4 x 0,34mm ² | I |
| 08310000019 | KJ4-M12MN60-DNA | non shielded | NPN | 4 | 2m cable PVC 4 x 0,34mm ² | I |
| 08317626365 | KJ4-M12MN80-DPA-V2 | non shielded | PNP | 4 | connector M12 4-pole | J |
| 0831xxxxxxx | KJ4-M12MN80-DNA-V2 | non shielded | NPN | 4 | connector M12 4-pole | J |

Other cable lengths as requested.

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M12 - ADVANCED

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ4... 2000Hz KJ6... 1000Hz |
| Hysteresis H | typ. $5\% \leq 10\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PA 6.6 |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317821000 | KJ4-M12MB50-DPS | shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317821400 | KJ4-M12MB50-DPÖ | shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317821100 | KJ4-M12MB50-DNS | shielded | NPN | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317821500 | KJ4-M12MB50-DNÖ | shielded | NPN | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317821050 | KJ4-M12MB60-DPS-V2 | shielded | PNP | 4 | connector M12 4-pole | B |
| 08317821450 | KJ4-M12MB60-DPÖ-V2 | shielded | PNP | 4 | connector M12 4-pole | B |
| 08317821150 | KJ4-M12MB60-DNS-V2 | shielded | NPN | 4 | connector M12 4-pole | B |
| 08317821550 | KJ4-M12MB60-DNÖ-V2 | shielded | NPN | 4 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ4-M12MB50-DPA | shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ4-M12MB50-DNA | shielded | PNP | 4 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310000388 | KJ4-M12MB60-DPA-V2 | shielded | NPN | 4 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ4-M12MB60-DNA-V2 | shielded | NPN | 4 | connector M12 4-pole | B |
| 08317821200 | KJ6-M12MN50-DPS | non shielded | PNP | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317821600 | KJ6-M12MN50-DPÖ | non shielded | PNP | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317821300 | KJ6-M12MN50-DNS | non shielded | NPN | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317821700 | KJ6-M12MN50-DNÖ | non shielded | NPN | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317821250 | KJ6-M12MN60-DPS-V2 | non shielded | PNP | 6 | connector M12 4-pole | D |
| 08317821650 | KJ6-M12MN60-DPÖ-V2 | non shielded | PNP | 6 | connector M12 4-pole | D |
| 08317821350 | KJ6-M12MN60-DNS-V2 | non shielded | NPN | 6 | connector M12 4-pole | D |
| 08317821750 | KJ6-M12MN60-DNÖ-V2 | non shielded | NPN | 6 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ6-M12MN50-DPA | non shielded | PNP | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ6-M12MN50-DNA | non shielded | PNP | 6 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ6-M12MN60-DPA-V2 | non shielded | NPN | 6 | connector M12 4-pole | D |
| 08310001176 | KJ6-M12MN60-DNA-V2 | non shielded | NPN | 6 | connector M12 4-pole | D |

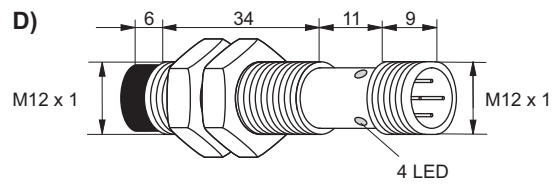
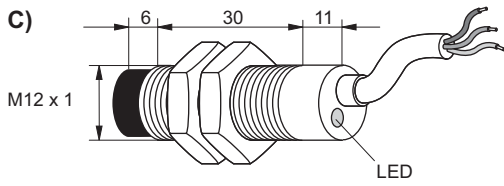
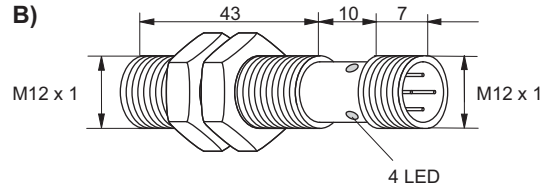
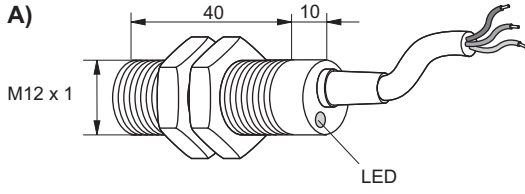
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M12 - ADVANCED

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - SHORTIES

General data

| | |
|------------------------------|------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA* |
| Off-state current I_o | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ5... 800Hz KJ8... 500Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | -25°C ... +70°C |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PCP |



* KJ5-M18MB25-DPS: 100mA

Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------------|--------------|-------------------------|--------------------------|--------------------------------------|---------------------|
| 08310000562 | KJ5-M18MB25-DPS | shielded | PNP $\text{—} \text{—}$ | 5 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317842000 | KJ5-M18MB35-DPS | shielded | PNP $\text{—} \text{—}$ | 5 | 2m cable PVC 3 x 0,34mm ² | B |
| 08317842100 | KJ5-M18MB35-DNS | shielded | NPN $\text{—} \text{—}$ | 5 | 2m cable PVC 3 x 0,34mm ² | B |
| 08317842065 | KJ5-M18MB50-DPS-V2 | shielded | PNP $\text{—} \text{—}$ | 5 | connector M12 4-pole | C |
| 08317842165 | KJ5-M18MB50-DNS-V2 | shielded | NPN $\text{—} \text{—}$ | 5 | connector M12 4-pole | C |
| 08317844900 | KJ8-M18MB40-DPS | shielded | PNP $\text{—} \text{—}$ | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317844800 | KJ8-M18MB40-DNS | shielded | NPN $\text{—} \text{—}$ | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317844950 | KJ8-M18MB50-DPS-V2 | shielded | PNP $\text{—} \text{—}$ | 8 | connector M12 4-pole | C |
| 08317844850 | KJ8-M18MB50-DNS-V2 | shielded | NPN $\text{—} \text{—}$ | 8 | connector M12 4-pole | C |
| 08317842200 | KJ8-M18MN35-DPS | non shielded | PNP $\text{—} \text{—}$ | 8 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317842300 | KJ8-M18MN35-DNS | non shielded | NPN $\text{—} \text{—}$ | 8 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317842265 | KJ8-M18MN50-DPS-V2 | non shielded | PNP $\text{—} \text{—}$ | 8 | connector M12 4-pole | F |
| 08317842365 | KJ8-M18MN50-DNS-V2 | non shielded | NPN $\text{—} \text{—}$ | 8 | connector M12 4-pole | F |

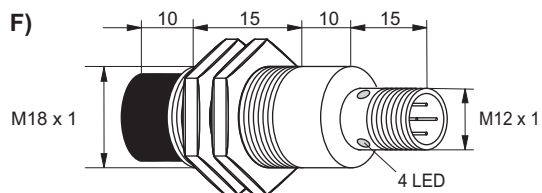
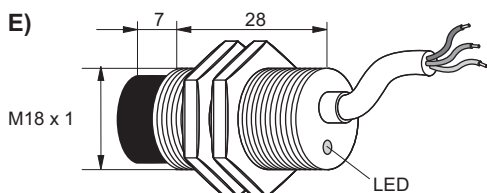
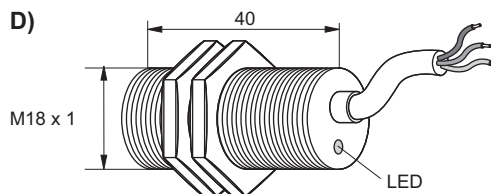
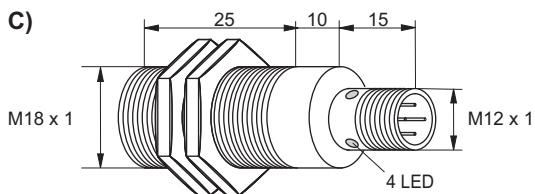
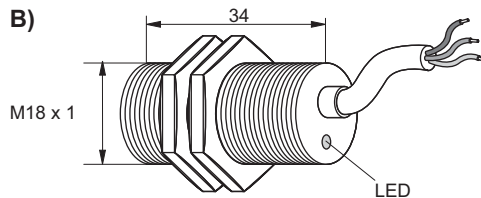
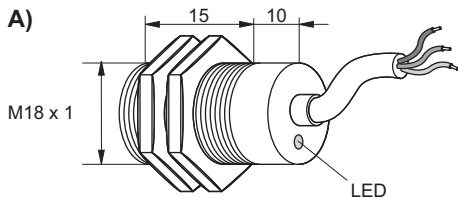
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - SHORTIES

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - STANDARD

General data

| | |
|------------------------------|---|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_o | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ5... 800Hz KJ8... 500Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PCP (KJ5... and KJ8... cable versions: PA 6.6) |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317644000 | KJ5-M18MB40-DPS | shielded | PNP | 5 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317644400 | KJ5-M18MB40-DPÖ | shielded | PNP | 5 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317644100 | KJ5-M18MB40-DNS | shielded | NPN | 5 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317644500 | KJ5-M18MB40-DNÖ | shielded | NPN | 5 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317644065 | KJ5-M18MB65-DPS-V2 | shielded | PNP | 5 | connector M12 4-pole | B |
| 08317644465 | KJ5-M18MB65-DPÖ-V2 | shielded | PNP | 5 | connector M12 4-pole | B |
| 08317644165 | KJ5-M18MB65-DNS-V2 | shielded | NPN | 5 | connector M12 4-pole | B |
| 08317644565 | KJ5-M18MB65-DNÖ-V2 | shielded | NPN | 5 | connector M12 4-pole | B |
| 08317646200 | KJ5-M18MB60-DPA | shielded | PNP | 5 | 2m cable PVC 4 x 0,34mm ² | C |
| 0831xxxxxxx | KJ5-M18MB60-DNA | shielded | NPN | 5 | 2m cable PVC 4 x 0,34mm ² | C |
| 08317644200 | KJ8-M18MN40-DPS | non shielded | PNP | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317644600 | KJ8-M18MN40-DPÖ | non shielded | PNP | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317644300 | KJ8-M18MN40-DNS | non shielded | NPN | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317644700 | KJ8-M18MN40-DNÖ | non shielded | NPN | 8 | 2m cable PVC 3 x 0,34mm ² | D |
| 08317644265 | KJ8-M18MN65-DPS-V2 | non shielded | PNP | 8 | connector M12 4-pole | E |
| 08317644665 | KJ8-M18MN65-DPÖ-V2 | non shielded | PNP | 8 | connector M12 4-pole | E |
| 08317644365 | KJ8-M18MN65-DNS-V2 | non shielded | NPN | 8 | connector M12 4-pole | E |
| 08317644765 | KJ8-M18MN65-DNÖ-V2 | non shielded | NPN | 8 | connector M12 4-pole | E |
| 08317646300 | KJ8-M18MN60-DPA | non shielded | PNP | 8 | 2m cable PVC 4 x 0,34mm ² | F |
| 0831xxxxxxx | KJ8-M18MN60-DNA | non shielded | NPN | 8 | 2m cable PVC 4 x 0,34mm ² | F |

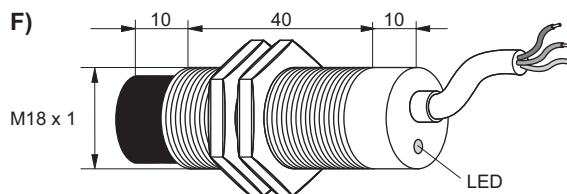
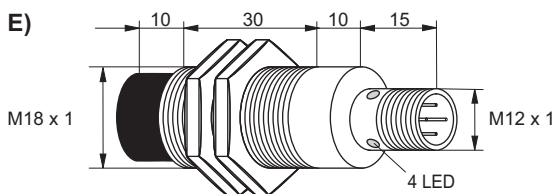
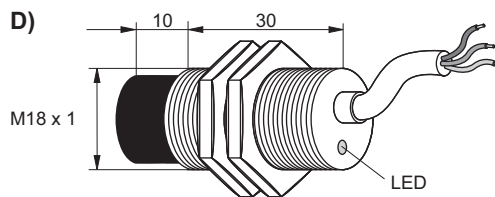
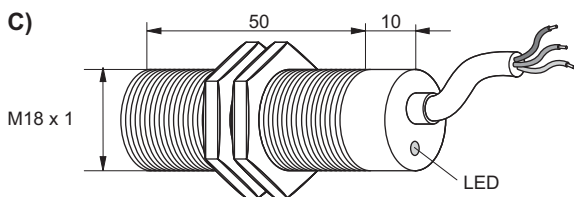
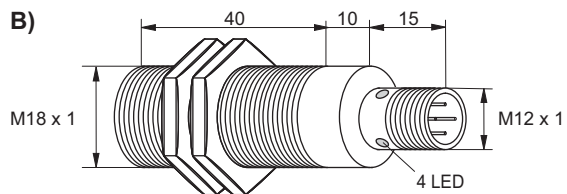
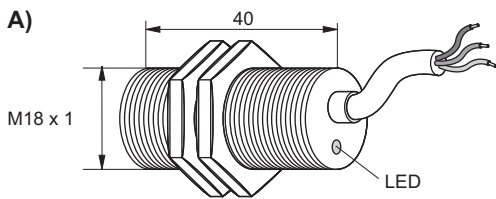
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - STANDARD

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - ADVANCED

General data

| | |
|------------------------------|---------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_r | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_o | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ8... 500Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | -25°C ... +70°C |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PCP |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317643900 | KJ8-M18MB60-DPS | shielded | PNP | 8 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ8-M18MB60-DPÖ | shielded | PNP | 8 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ8-M18MB60-DNS | shielded | NPN | 8 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ8-M18MB60-DNÖ | shielded | NPN | 8 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317643965 | KJ8-M18MB75-DPS-V2 | shielded | PNP | 8 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ8-M18MB75-DPÖ-V2 | shielded | PNP | 8 | connector M12 4-pole | B |
| 08310000525 | KJ8-M18MB75-DNS-V2 | shielded | NPN | 8 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ8-M18MB75-DNÖ-V2 | shielded | NPN | 8 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ8-M18MB60-DPA | shielded | PNP | 8 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310000919 | KJ8-M18MB75-DPA-V2 | shielded | PNP | 8 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ12-M18MN60-DPS | non shielded | PNP | 12 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ12-M18MN60-DPÖ | non shielded | PNP | 12 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ12-M18MN60-DNS | non shielded | NPN | 12 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ12-M18MN60-DNÖ | non shielded | NPN | 12 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ12-M18MN75-DPS-V2 | non shielded | PNP | 12 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ12-M18MN75-DPÖ-V2 | non shielded | PNP | 12 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ12-M18MN75-DNS-V2 | non shielded | NPN | 12 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ12-M18MN75-DNÖ-V2 | non shielded | NPN | 12 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ12-M18MN60-DPA | non shielded | PNP | 12 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ12-M18MN75-DPA-V2 | non shielded | PNP | 12 | connector M12 4-pole | D |

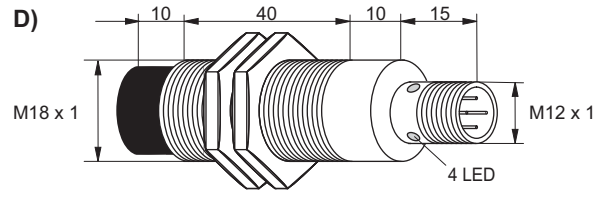
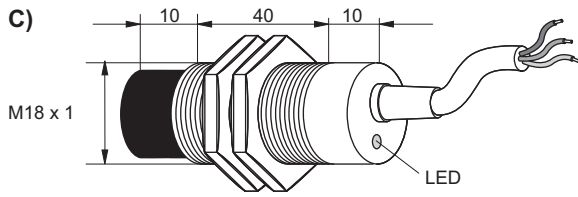
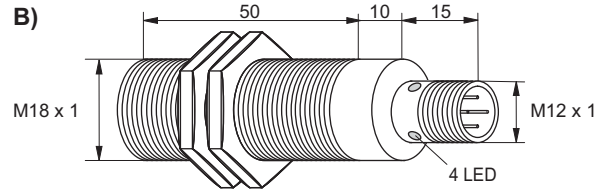
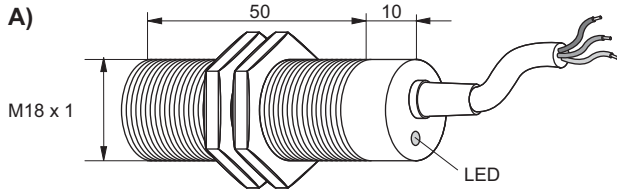
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M18 - ADVANCED

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER G20

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | 500Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | Trogamit T |

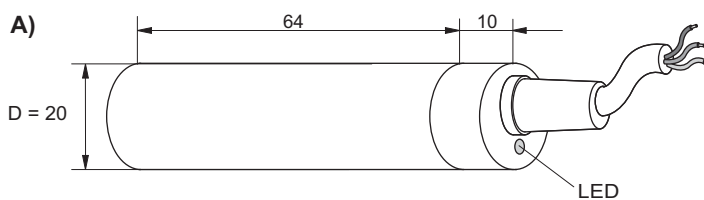


Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing |
|----------------|-----------------------|--------------|---------------|--------------------------|--------------------------------------|---------|
| 08310537100 | KJ10-G20KN-DPS | non shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310020051 | KJ10-G20KN-DPÖ | non shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310000503 | KJ10-G20KN-DPA | non shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |

Other cable lengths as requested.

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - SHORTIES

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 10mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ10... 500Hz KJ15... 300Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PCP |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|----------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317862000 | KJ10-M30MB35-DPS | shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317862100 | KJ10-M30MB35-DNS | shielded | NPN | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317862065 | KJ10-M30MB50-DPS-V2 | shielded | PNP | 10 | connector M12 4-pole | B |
| 08317862165 | KJ10-M30MB50-DNS-V2 | shielded | NPN | 10 | connector M12 4-pole | B |
| 08317862200 | KJ15-M30MN35-DPS | non shielded | PNP | 15 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317862300 | KJ15-M30MN35-DNS | non shielded | NPN | 15 | 2m cable PVC 3 x 0,34mm ² | C |
| 08317862265 | KJ15-M30MN50-DPS-V2 | non shielded | PNP | 15 | connector M12 4-pole | D |
| 08317862365 | KJ15-M30MN50-DNS-V2 | non shielded | NPN | 15 | connector M12 4-pole | D |

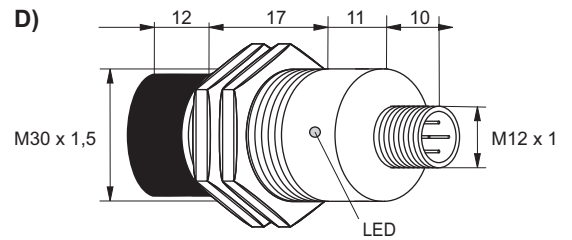
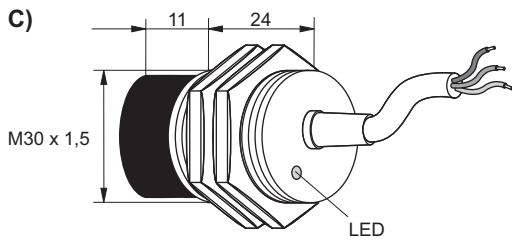
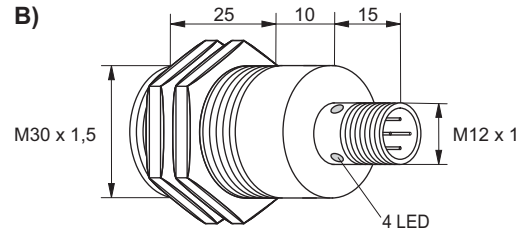
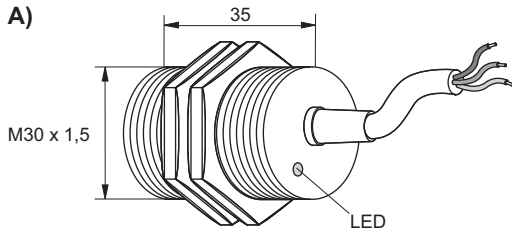
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - SHORTIES

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - STANDARD

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ10... 500Hz KJ15... 300Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|---------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317664000 | KJ10-M30MB40-DPS | shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317664400 | KJ10-M30MB40-DPÖ | shielded | PNP | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317664100 | KJ10-M30MB40-DNS | shielded | NPN | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317664500 | KJ10-M30MB40-DNÖ | shielded | NPN | 10 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317664065 | KJ10-M30MB75-DPS-V2 | shielded | PNP | 10 | connector M12 4-pole | B |
| 08317664465 | KJ10-M30MB75-DPÖ-V2 | shielded | PNP | 10 | connector M12 4-pole | B |
| 08317664165 | KJ10-M30MB75-DNS-V2 | shielded | NPN | 10 | connector M12 4-pole | B |
| 08317664565 | KJ10-M30MB75-DNÖ-V2 | shielded | NPN | 10 | connector M12 4-pole | B |
| 08317666200 | KJ10-M30MB60-DPA | shielded | PNP | 10 | 2m cable PVC 4 x 0,34mm ² | C |
| 08317666265 | KJ10-M30MB80-DPA-V2 | shielded | PNP | 10 | 2m cable PVC 4 x 0,34mm ² | D |
| 08317664200 | KJ15-M30MN40-DPS | non shielded | PNP | 15 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317664600 | KJ15-M30MN40-DPÖ | non shielded | PNP | 15 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317664300 | KJ15-M30MN40-DNS | non shielded | NPN | 15 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317664700 | KJ15-M30MN40-DNÖ | non shielded | NPN | 15 | 2m cable PVC 3 x 0,34mm ² | E |
| 08317664265 | KJ15-M30MN75-DPS-V2 | non shielded | PNP | 15 | connector M12 4-pole | F |
| 08317664665 | KJ15-M30MN75-DPÖ-V2 | non shielded | PNP | 15 | connector M12 4-pole | F |
| 08317664365 | KJ15-M30MN75-DNS-V2 | non shielded | NPN | 15 | connector M12 4-pole | F |
| 08317664765 | KJ15-M30MN75-DNÖ-V2 | non shielded | NPN | 15 | connector M12 4-pole | F |
| 08317666300 | KJ15-M30MN60-DPA | non shielded | PNP | 15 | 2m cable PVC 4 x 0,34mm ² | G |
| 08317666365 | KJ15-M30MN80-DPA-V2 | non shielded | PNP | 15 | 2m cable PVC 4 x 0,34mm ² | H |

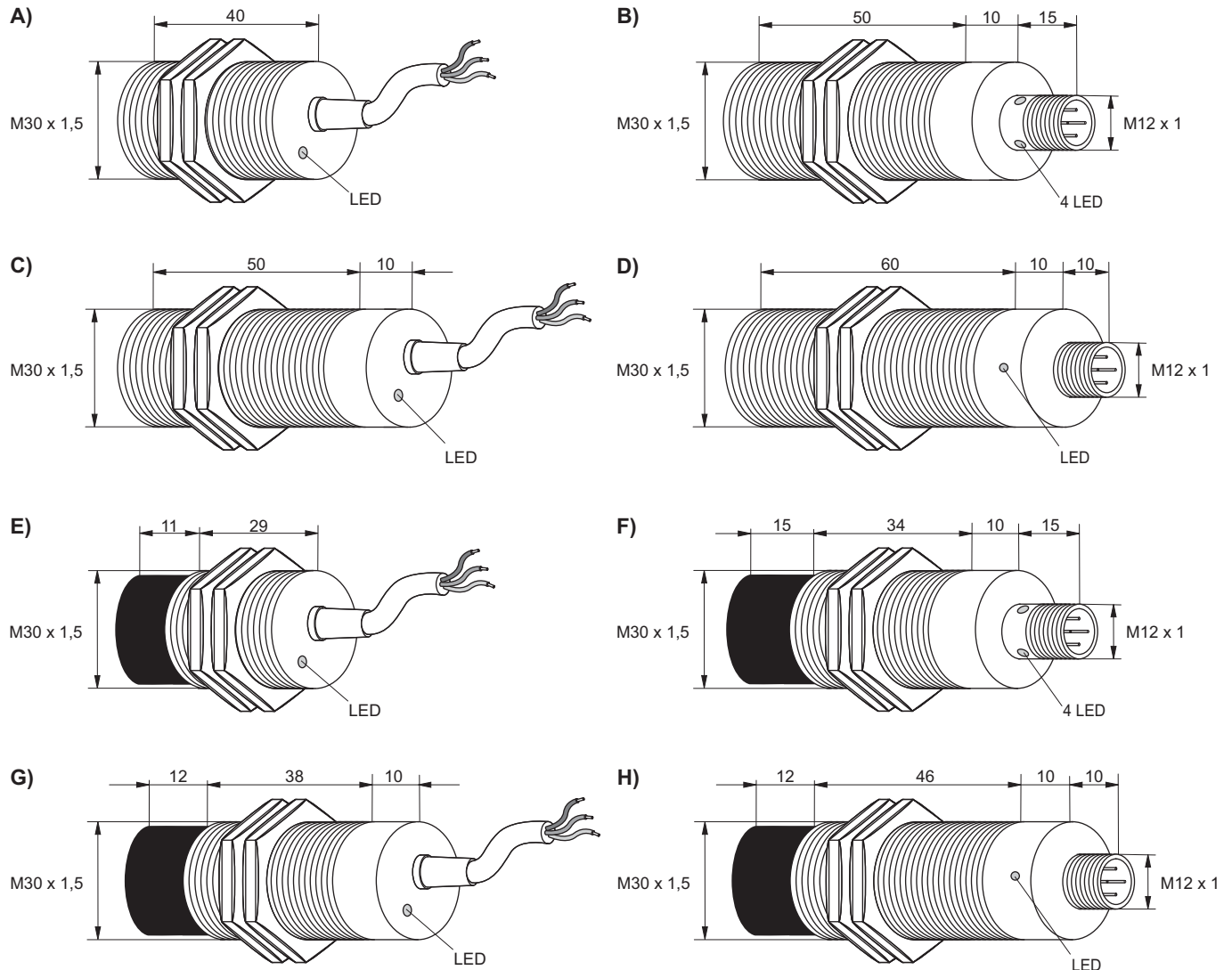
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - STANDARD

Dimensions



all data in mm



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - ADVANCED

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | KJ15... 500Hz KJ30... 300Hz |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PA 6.6 |



Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing (next page) |
|----------------|----------------------------|--------------|---------------|--------------------------|--------------------------------------|---------------------|
| 08317663900 | KJ15-M30MB60-DPS | shielded | PNP | 15 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ15-M30MB60-DPÖ | shielded | PNP | 15 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ15-M30MB60-DNS | shielded | NPN | 15 | 2m cable PVC 3 x 0,34mm ² | A |
| 0831xxxxxxx | KJ15-M30MB60-DNÖ | shielded | NPN | 15 | 2m cable PVC 3 x 0,34mm ² | A |
| 08317663965 | KJ15-M30MB75-DPS-V2 | shielded | PNP | 15 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ15-M30MB75-DPÖ-V2 | shielded | PNP | 15 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ15-M30MB75-DNS-V2 | shielded | NPN | 15 | connector M12 4-pole | B |
| 0831xxxxxxx | KJ15-M30MB75-DNÖ-V2 | shielded | NPN | 15 | connector M12 4-pole | B |
| 08310000762 | KJ30-M30MN60-DPS | non shielded | PNP | 30 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ30-M30MN60-DPÖ | non shielded | PNP | 30 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ30-M30MN60-DNS | non shielded | NPN | 30 | 2m cable PVC 3 x 0,34mm ² | C |
| 0831xxxxxxx | KJ30-M30MN60-DNÖ | non shielded | NPN | 30 | 2m cable PVC 3 x 0,34mm ² | C |
| 08310000717 | KJ30-M30MN75-DPS-V2 | non shielded | PNP | 30 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ30-M30MN75-DPÖ-V2 | non shielded | PNP | 30 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ30-M30MN75-DNS-V2 | non shielded | NPN | 30 | connector M12 4-pole | D |
| 0831xxxxxxx | KJ30-M30MN75-DNÖ-V2 | non shielded | NPN | 30 | connector M12 4-pole | D |

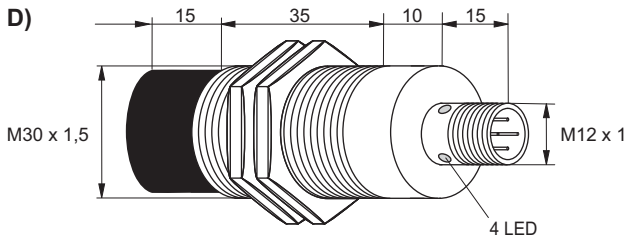
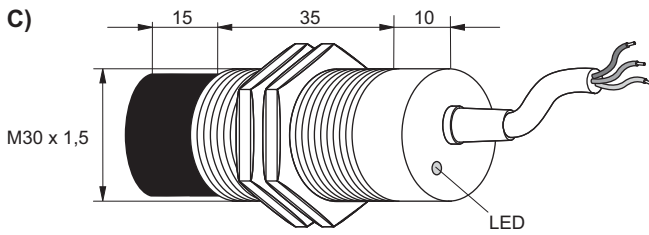
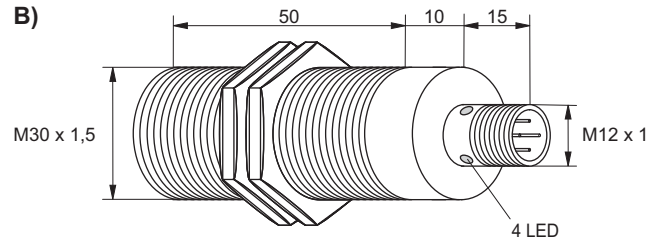
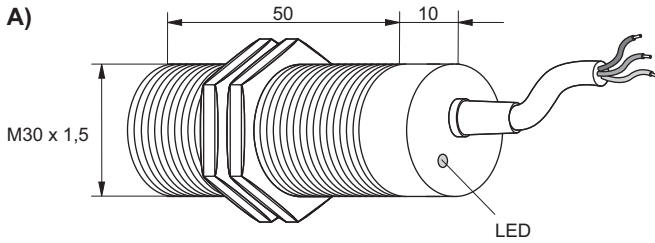
Other cable lengths as requested.



INDUCTIVE SENSORS CYLINDER DC

CYLINDER M30 - ADVANCED

Dimensions





INDUCTIVE SENSORS CYLINDER DC

CYLINDER G34 - ADVANCED

General data

| | |
|------------------------------|---------------------------------|
| Operating voltage U_b | 10 ... 30V DC |
| Ripple voltage U_b | $\leq 10\%$ |
| Voltage drop U_d | $\leq 2,4V$ |
| Max. load current | 200mA |
| Off-state current I_0 | $\leq 13mA$ |
| Residual current I_r | $\leq 10\mu A$ |
| Max. switching frequency f | 200Hz (antivalent 300Hz) |
| Hysteresis H | $\leq 15\%$ |
| Repeatability R | $-25^\circ C \dots +70^\circ C$ |
| Temperature range T_a | $\leq 10\%$ |
| Temperature drift | $\leq 10\%$ |
| Protection class | IP67 |
| EMV-standard | according to EN 60947-5-2 |
| Switching state | LED |
| Housing material | brass nickel-plated |
| Front cap | PA 6.6 |

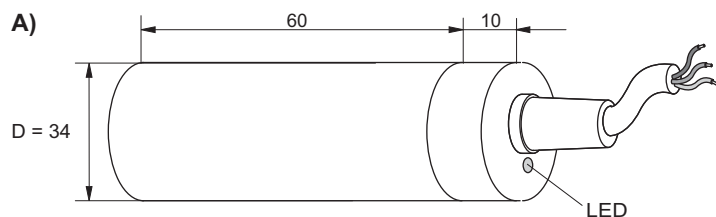


Selection chart

| Article number | Designation | Mounting | Output signal | Switching distance in mm | Connection | Drawing |
|----------------|-----------------------|--------------|---------------|--------------------------|--------------------------------------|---------|
| 08310000485 | KJ20-G34KN-DPS | non shielded | PNP | 20 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310000622 | KJ20-G34KN-DPÖ | non shielded | PNP | 20 | 2m cable PVC 3 x 0,34mm ² | A |
| 08310000450 | KJ20-G34KN-DPA | non shielded | PNP | 20 | 2m cable PVC 4 x 0,34mm ² | A |

Version NPN and other cable lengths as requested.

Dimensions



all data in mm