

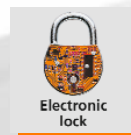


Ready for use at the push of a button.



Capacitive sensor reduces type versions.

- Easy pushbutton adjustment in the application.
- Automatic detection of PNP or NPN output loads.
- Normally open / normally closed freely selectable.
- Clearly visible indication of the switching status.
- Easy mounting using fastening strips.



Application

Capacitive sensors detect bulk materials or liquids through non-metallic materials.

The capacitive sensors of the KQ series can either be fixed on a flat surface or on tubes using mounting brackets and cable ties.

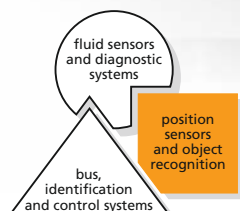
Using optional accessories the sensors can be integrated into a wide range of applications in a flexible and time-saving way.

Set-up

The new operating concept enables setting and adjustment of the output function by pressing just one push-button. The automatic detection of the load simplifies the connection to common controllers.



Detection of liquids on a bypass.

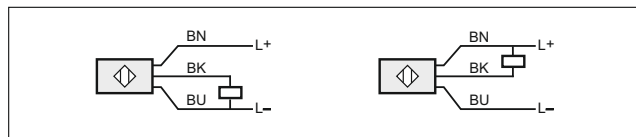


Applications:
Detection of bulk material and liquids through non-metallic vessel walls

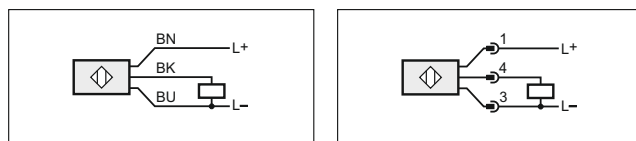
| Type [mm] | Sensing range [mm] | Setting range [mm] | Teach button | Protection | Output function | Output stage | Order no. |
|---|--------------------|--------------------|--------------|-------------------|-----------------|--------------|---------------|
| Connection cable 2 m PVC · 3 wires | | | | | | | |
| 48 x 20 x 14 | 12 nf | 3...20 | • | IP 65, IP 67, III | programmable | PNP / NPN* | KQ6001 |
| 48 x 20 x 14 | 12 nf | 3...20 | • | IP 65, IP 67, III | programmable | PNP | KQ6002 |
| Connection cable with M8 plug · 3 wires | | | | | | | |
| 48 x 20 x 14 | 12 nf | 3...20 | • | IP 65, IP 67, III | programmable | PNP / NPN* | KQ6003 |
| 48 x 20 x 14 | 12 nf | 3...20 | • | IP 65, IP 67, III | programmable | PNP | KQ6004 |
| Connection cable with M12 plug · 3 wires | | | | | | | |
| 48 x 20 x 14 | 12 nf | 3...20 | • | IP 65, IP 67, III | programmable | PNP | KQ6005 |

* automatic detection of the load

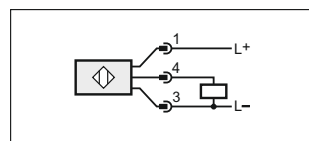
Wiring diagram



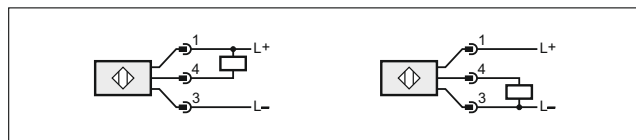
KQ6001



KQ6002







KQ6004, KQ6005



KQ6003







Accessories

| Type | Description | Order no. |
|---|---|---------------|
|  | Mounting adapter for free-standing mounting, PBT, pack quantity 1 piece | E12153 |
|  | Mounting adapter for free-standing mounting, PBT, pack quantity 10 pieces | E12154 |
|  | Mounting adapter in connection with E12153 / E12154, PBT (Pocan) | E11099 |
|  | Fixing strap in connection with E11099, PA, pack quantity 5 pieces | E10880 |

Further technical data

| | | |
|--|---------------------------------|--|
| Operating voltage | [V DC] | 10...36 |
| Current rating | [mA] | 100 |
| Voltage drop | [V] | < 2.5 |
| Switching frequency | [Hz] | 10 |
| Switch point drift of Sr | [%] | ± 20 |
| Switching hysteresis of Sr | [%] | 1...15 |
| Short-circuit protection, pulsed | | • |
| Reverse polarity / overload protection | | • / • |
| Operating temperature | [°C] | -25...80 |
| Material | housing cover pushbuttons | PBT reinforced glass-fibre PC reinforced glass-fibre TPE-U |
| Switching status | LED | yellow |
| EMC | | EN 60947-5-2 |

Connectors and splitter boxes

| Type | Description | Order no. |
|---|--|---------------|
|  | M12 socket, 2 m black, PUR cable | EVC001 |
|  | M12 socket, 5 m black, PUR cable | EVC002 |
|  | M8 socket, 4 poles, 2 m black, PUR cable | E11199 |
|  | M8 socket, 4 poles, 5 m black, PUR cable | E11200 |
|  | Connection cable, M12, 4 poles, 0.3 m black, pin 3: L+ pin 1: L- | E11974 |
|  | Connection cable, M8, 4 poles, 0.2 m black, pin 3: L+ pin 1: L- | E12155 |