

# Illuminated push button

K14-131.221042

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## K14-131.221042

### Illuminated push button

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#### FRONT

**Front dimension:** Ø 35 mm

**Front form:** Round

#### MOUNTING

**Mounting cut-out:** Ø 30.5 mm

**Mounting type:** Panel mounting

#### OPERATING-/INDICATION PART

**Lens colour:** Colourless

**Lens material:** Plastic

**Lens illumination:** Illuminated

**Lens shape:** Raised

**Lens optics:** transparent

**Illumination colour:** Colourless

#### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

- 250 VAC, 5 A (ohmic)
- 250 VAC, 3 A (Soldering terminal)
- 250 VAC, 2 A (inductive,  $\cos(\phi) = 0.7$ )
- 220 VDC, 0.1 A (inductive, L:R = 30 ms)
- 110 VDC, 0.2 A (inductive, L:R = 30 ms)
- 60 VDC, 0.7 A (inductive, L:R = 30 ms)
- 24 VDC, 2 A (inductive, L:R = 30 ms)

**Contacts:** 1 NC / 1 NO

**Operating voltage:** 28 V AC/DC

**Operation current:** 2.5/5 mA  $\pm 15\%$

|                                      |                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------|
| <b>Rated Operational Voltage Ue:</b> | 250 VAC/DC according to EN IEC 61058-1                                               |
| <b>Switching rating:</b>             | 250 V AC @ 3 A                                                                       |
| <b>Electrical lifetime:</b>          | 50 000 cycles of operation                                                           |
| <b>Electric strength:</b>            | 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC 61058-1 |
| <b>Protection class:</b>             | II                                                                                   |
| <b>Standards:</b>                    | According to EN/IEC 61058-1                                                          |
| <b>Thermal current Ith:</b>          | 3 A                                                                                  |

## MECHANICAL CHARACTERISTICS

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>            | Soldering terminal                                                                                     |
| <b>Contact material:</b>    | Gold-plated silver                                                                                     |
| <b>Switching action:</b>    | Momentary                                                                                              |
| <b>Switching system:</b>    | Snap-action switching element                                                                          |
| <b>Switching system:</b>    |                                                                                                        |
| <b>Mechanical lifetime:</b> | 2 Mil. cycles of operation                                                                             |
| <b>Operating force:</b>     | 3 N ... 6 N                                                                                            |
| <b>Operating Travel:</b>    | 3 mm                                                                                                   |
| <b>Tightening torque:</b>   | Fixing nut max. 0.25 Nm                                                                                |
| <b>Wire cross section:</b>  | Max. wire diameter 2 wires à 1.2 mm<br>Max. wire cross-section of stranded cable 1 x 1 mm <sup>2</sup> |
| <b>Weight:</b>              | 0.031 kg                                                                                               |

## AMBIENT CONDITION

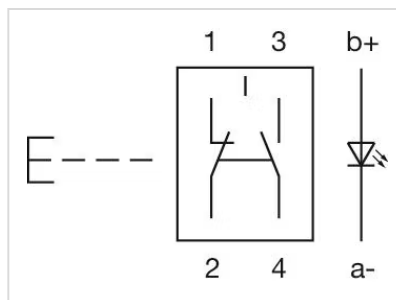
|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>IP front protection:</b>   | IP67, according to DIN EN 60529                                                                     |
| <b>Operating temperature:</b> | – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely                       |
| <b>Storage temperature:</b>   | – 40 °C ... + 85 °C                                                                                 |
| <b>Shock resistance:</b>      | Max. 150 m / s <sup>2</sup> , pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27) |
| <b>Vibration resistance:</b>  | Max. 100 m / s <sup>2</sup> from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)                    |
| <b>Climate resistance:</b>    | Standard condition, as per DIN EN 60068-2-78<br>Standard cyclic, as per DIN IEC 60068-2-30          |

## CERTIFICATE

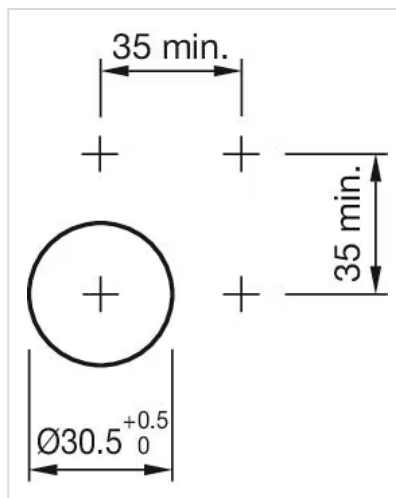
|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>Approbations:</b> | CB (IEC 61058-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), UL, VDE |
| <b>Conformities:</b> | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)            |
| <b>REACH:</b>        | REACH compliant                                                  |
| <b>RoHS:</b>         | RoHS compliant                                                   |

## OTHER

|                                           |                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Short Description:</b>                 | Illuminated push button, Momentary, 250 V AC @ 3 A, 28 V AC/DC, 1 NC / 1 NO, Soldering terminal, Round, Colourless, Colourless |
| <b>Housing colour:</b>                    | Black                                                                                                                          |
| <b>Housing material:</b>                  | Plastic                                                                                                                        |
| <b>max. number of switching elements:</b> | 1                                                                                                                              |
| <b>Wiring diagrams:</b>                   |                                                                                                                                |



## Mounting cut-outs:



## Dimension drawings:

