

## KN 19 - Short-travel main switch, 1-pole

### 1.12.000.001/0000

For keycaps, refer to RK 90 system design.



Positive opening contacts to IEC 947-5-1.

1-LED spot-illumination (max. 3 mm) possible.

#### General information

|                      |                 |
|----------------------|-----------------|
| Recommended key grid | 19.05 x 38.1 mm |
|----------------------|-----------------|

#### Dimensions

|                |         |
|----------------|---------|
| Length         | 37.8 mm |
| Width          | 18.8 mm |
| Overall height | 9.7 mm  |

#### Mechanical design

|                                         |                            |
|-----------------------------------------|----------------------------|
| Mounting                                | on PCB                     |
| Terminals                               | THT solder terminals       |
| Contact system                          | snap-action bridge contact |
| Contact arrangement                     | 1 NC + 1 NO                |
| Contact materials                       | Ag                         |
| Illumination                            | 1 LED (max. 3 mm) possible |
| Degree of protection                    | IP40 (DIN EN 60529)        |
| Hot wire ignition acc. to IEC 60695-2-1 | 850 °C                     |

#### Mechanical characteristics

|                      |                          |
|----------------------|--------------------------|
| Operating force max. | 9 <sup>±3</sup> N        |
| Operating travel     | 0.55 <sup>±0.15</sup> mm |
| Robustness max.      | 100 N                    |

#### Electrical characteristics

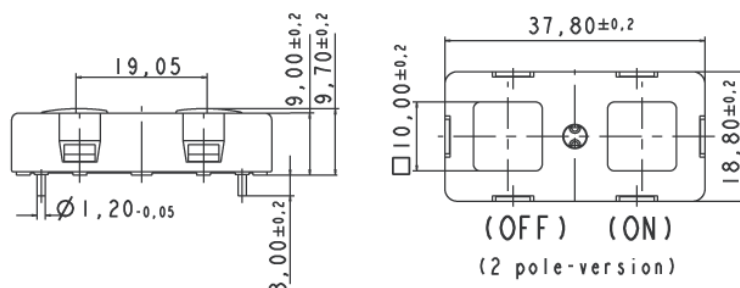
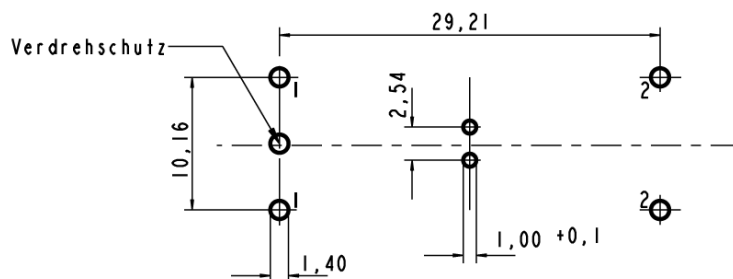
|                                  |       |
|----------------------------------|-------|
| Rated voltage AC min.            | 12 V  |
| Rated voltage DC min.            | 12 V  |
| Rated voltage AC max.            | 250 V |
| Rated voltage DC max.            | 50 V  |
| Ohmic load DC min.               | 0.1 A |
| Ohmic load AC                    | 6 A   |
| Ohmic load DC max.               | 10 A  |
| Contact resistance when new max. | 50 mΩ |
| Capacity input current AC max.   | 100 A |
| Rated motor current AC           | 4 A   |
| Rated filament lamp current AC   | 2.4 A |

|                    |       |
|--------------------|-------|
| Bouncing time max. | 10 ms |
|--------------------|-------|

### Other specifications

|                              |                                          |
|------------------------------|------------------------------------------|
| Ambient temp. operating min. | -25 °C                                   |
| Ambient temp. operating max. | +70 °C                                   |
| Environmental resistance     | acc. to IEC 60068-2-14, -30, -33 and -78 |
| Operating life AC            | AC 250 V: 200.000 /2A; 100.000 /6A       |
| Operating life DC            | 50,000(10 A / 50 V=)                     |
| Soldering time max.          | 3 s                                      |
| Soldering temperature max.   | 350 °C                                   |
| ROHS compliant               | yes                                      |
| REACH compliant              | yes                                      |

### PCB footprint



2 NC / 2 NO

