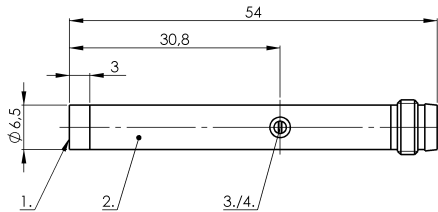
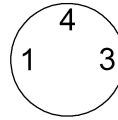


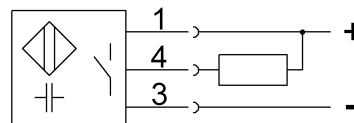
SK1-3-6.5-NNBS-VA/PTFE-Y1 CS0024



Connector view



Wiring Diagram



1) Sensing surface 2) Housing 3) Potentiometer 4) LED function indicator



Electrical connection

| | |
|-----------------------------|------------------------|
| Connection | M8x1-Connector, 3-pole |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Hysteresis H max. (% of Sr) | 15.0 % |
| MTTF (40 °C) | 444 a |
| Operating voltage U _b | 11...30 VDC |
| Protected against miswiring | yes |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e DC | 50 mA |
| Repeat accuracy max. (% of Sr) | 2.0 % |
| Switching frequency | 100 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2 V |

Environmental conditions

| | |
|---------------------------|-------------|
| Ambient temperature | -10...70 °C |
| Protection type IEC 60529 | IP65 |

Functional safety

| | |
|---------------------|-----|
| Diagnostic coverage | 0 % |
| Functional safety | no |

General data

| | |
|---------------------|-------------|
| Approval/Conformity | CE cULus |
|---------------------|-------------|

Basic standard

IEC 60947-5-2

Sensitivity

Switching distance adjustable

Material

| | |
|--------------------------|--------------------------|
| Cover material | PA |
| Housing material | Stainless steel (1.4301) |
| Material cover | PA |
| Material sensing surface | PTFE |

Mechanical data

| | |
|--------------|-----------|
| Dimension | undefined |
| Installation | non-flush |
| Size | D6.5 |

Output/Interface

| | |
|------------------|------------------------|
| Switching output | NPN Normally open (NO) |
|------------------|------------------------|

Range/Distance

| | |
|---|------------|
| Measuring range | 0.1...3 mm |
| Range | 0.1...3 mm |
| Rated operating distance S _n | 3 mm |
| Ripple max. (% of U _e) | 10 % |
| Temperature drift max. (% of Sr) | 15 % |

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate. Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.