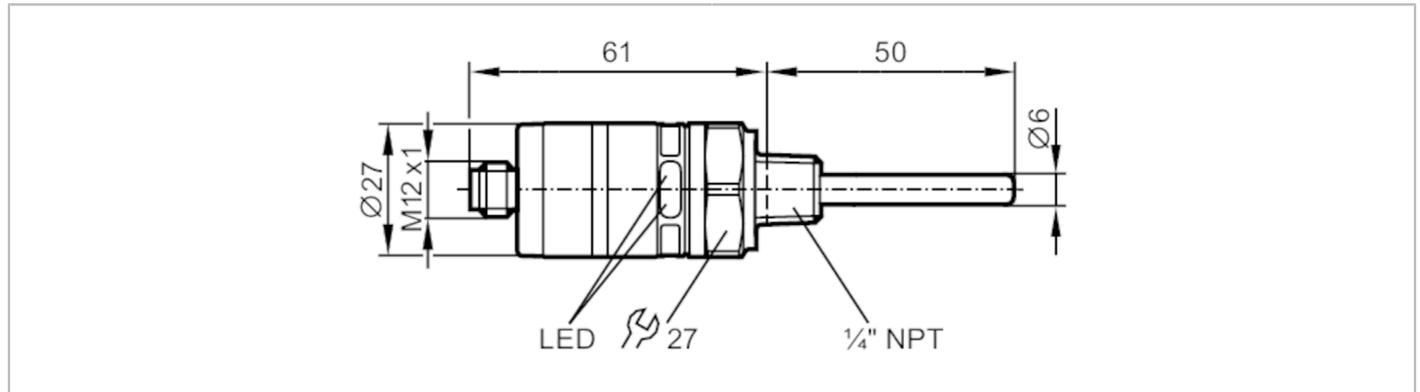


TK6310



Temperature switch with intuitive switch point setting

TK-050CLFN14-QKPKG / US



| Product characteristics | |
|--|--|
| Number of inputs and outputs | Number of digital outputs: 2 |
| Measuring range | -20...140 °C -4...284 °F |
| Process connection | threaded connection 1/4" NPT external thread |
| Installation length EL [mm] | 50 |
| Application | |
| Special feature | Gold-plated contacts |
| Measuring element | 1 x Pt 1000; (to DIN EN 60751, class A) |
| Media | liquids and gases |
| Medium temperature [°C] | -40...145 |
| Pressure rating [bar] | 400 |
| Pressure rating [MPa] | 40 |
| Electrical data | |
| Operating voltage [V] | 9.6...32 DC; ("supply class 2" to cULus) |
| Current consumption [mA] | < 30 |
| Protection class | III |
| Reverse polarity protection | yes |
| Power-on delay time [s] | 0.5 |
| Inputs / outputs | |
| Number of inputs and outputs | Number of digital outputs: 2 |
| Outputs | |
| Total number of outputs | 2 |
| Output signal | switching signal |
| Electrical design | PNP |
| Number of digital outputs | 2 |
| Output function | complementary |
| Max. voltage drop switching output DC [V] | 2 |
| Permanent current rating of switching output DC [mA] | 500 |
| Short-circuit protection | yes |

TK6310



Temperature switch with intuitive switch point setting

TK-050CLFN14-QKPKG / US

| | | |
|--------------------------------------|---------------------------|--|
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| Measuring/setting range | | |
| Probe length L [mm] | | 38 |
| Measuring range | -20...140 °C | -4...284 °F |
| Set point SP | -16...140 °C | 3...284 °F |
| Reset point rP | -20...136 °C | -4...277 °F |
| Accuracy / deviations | | |
| Temperature drift per 10 K [K] | | 0.1 **) |
| Repeatability [K] | | ± 0,1 |
| Setting accuracy [K] | | ± 3 |
| Response times | | |
| Dynamic response T05 / T09 [s] | | 1 / 3; (to DIN EN 60751) |
| Software / programming | | |
| Adjustment of the switch point | | setting rings |
| Operating conditions | | |
| Ambient temperature [°C] | | -40...80 |
| Note on ambient temperature | | at medium temperature: < 80 °C -40...50 °C at medium temperature: < 145 °C |
| Storage temperature [°C] | | -40...100 |
| Protection | | IP 67 |
| Tests / approvals | | |
| EMC | DIN EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 10 V/m |
| | DIN EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 10 V |
| Shock resistance | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | DIN EN 60068-2-6 | 20 g (10...2000 Hz) |
| MTTF [years] | | 643.1 |
| UL approval | UL Approval no. | K018 |
| Mechanical data | | |
| Weight [g] | | 100.5 |
| Housing | | cylindrical |
| Dimensions [mm] | | Ø 27 / L = 111 |
| Materials | | stainless steel (316L/1.4404); PC; PBT; FKM |
| Materials (wetted parts) | | stainless steel (316L/1.4404); FKM |
| Process connection | | threaded connection 1/4" NPT external thread |
| Probe diameter [mm] | | 6 |
| Installation length EL [mm] | | 50 |
| Displays / operating elements | | |
| Display | operation | LED, green |
| | switching status | LED, yellow |

TK6310



Temperature switch with intuitive switch point setting

TK-050CLFN14-QKPKG / US

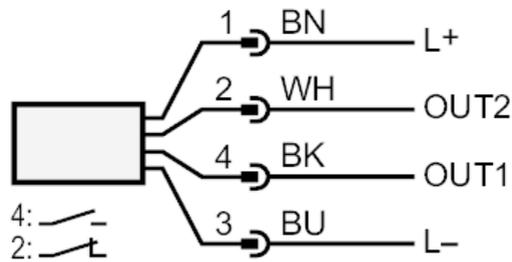
| Remarks | |
|---------------|---|
| Remarks | **) in case of deviation from the reference condition 25 °C The values for accuracy apply to flowing water. |
| Pack quantity | 1 pcs. |

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



colours to DIN EN 60947-5-2
Core colours :
BK = black
BN = brown
BU = blue
WH = white