



Water Temperature Sensor TK6110

URL:<https://www.sxplc.com/water-temperature-sensor-tk6110>

Product data sheet

Product Characteristics

Total number of inputs and outputs

Number of digital outputs: 2

Measuring range

-20.....140 °C

-4.....284 °F

System connections

Threaded connection G 1/4

Panel mounting length EL [mm]

50

Applications

Special properties

Gold-plated contacts

Measuring element

1 x Pt 1000; (according to DIN EN 60751, class A)

Mediums

Liquid and gaseous media

Temperature [°C]

-40..... 145

Compressive strength [bar]

400

Electrical data

Operating voltage [V]

9.6..... 32 DC; (according to cULus - Class 2)

Current loss [mA]

< 30

Protection class

III

Inverted phase protection

yes

Power-on delay time [s]

0.5

Total inputs/outputs

Total number of inputs and outputs

Number of digital outputs: 2

Outputs

Number of outputs

2

Output signals

Switching signals

Electrical design

PNP

Number of digital outputs

2

Output function

NC+NO

Switching output DC voltage drop maximum value [V]

2

Continuous current load of switching output DC [mA]

500

Short circuit protection

Yes

Short-circuit protection type

Pulse

Overload protection

Yes

Measuring/setting range

Measuring range

-20.... .140 °C

-4.... .284 °F

Switching point, SP

-16.... .140 °C

3.... .284 °F

Recovery point, rP

-20.... .136 °C

-4.... .277 °F

Accuracy / Deviation

Temperature rate of change /10 K [K]

0.1 **)

Repeatability [K]

$\pm 0,1$

Adjustment accuracy [K]

± 3

Response time

Response time T05 / T09 [s]

1 / 3; (according to DIN EN 60751)

Software / Programming

Switch point adjustment

Swivel ring

Operating conditions

Ambient temperature [°C]

-40.... .80

Note ambient temperature

At medium temperature: < 80 °C

-40.... .50 °C

At medium temperature: < 145 °C

Storage temperature [°C]

-40.... .100 °C

Enclosure protection class

IP 67

Approvals/Tests

EMC Electromagnetic Compatibility

DIN EN 61000-4-2 ESD

4 kV CD / 8 kV AD

EN 61000-4-3 HF electromagnetic field radiation

10 V/m

DIN EN 61000-4-4 Burst

2 kV

EN 61000-4-6 Conducted immunity for RF field induction

10 V

Shock resistance

DIN IEC 68-2-27

50 g (11 ms)

Vibration

DIN EN 60068-2-6

20 g (10.....2000 Hz)

MTTF [years]

643.1

UL certification

UL certification number

K018

Mechanical Technical Data

Weight [g]

104.5

Material

Stainless steel (1.4404 / 316L); PC; PBT; FKM

Material (liquid-containing parts)

Stainless steel (1.4404 / 316L); FKM

Tightening torque [Nm]

35

System connection

Threaded connection G 1/4

Probe diameter [mm]

6

Panel mounting length EL [mm]

50

Display/operating elements

Displays

Operation

LED, green

Switching status

LED, yellow

Comments

Note

**) In case of a deviation from the reference conditions of 25 °C

Precise values apply to flowing water.

Packaging unit

1 piece

Electrical connection

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

Translated with DeepL.com (free version)

