LR-Cal LR
Compact temperature sensor
LTS 450 - for the food industry
LTS 450

Resistance thermometer LTS 450

Rel. 20240322

Features

• Modular resistance thermometer for food industry
• Adaptable with sleeve socket and process connection thread (see accessories)
• Process connectiion thread G1/2" (1/2" BSP)
• Short reaction time without reduced measuring point
• Temperature resistance PT100 directly constructed in protective fitting
• Electrical connection with M12-plug (connections see accessories)
• optional with measuring transducer, output 4-20 mA 2-wire
• Specials on request

Technical specifications

• Protective fitting made of stainless steel V4A 1.4404 (316L) resp. V4A 1.4571
• Diameter 6 x 1 mm, other diameters on request
• Temperature range: -50 °C to +150 °C
  (extended ranges on request)
• Power supply at option measuring transducer 10...35 VDC

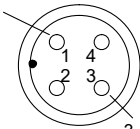**LTS 450-9-A-1A-PMU**

LTS 450-9-A-1A

Product benefits

With our compact LTS 450 you are able to measure temperatures
in the food industry under ideal space utilization. The sensor has a sealing cone
below the connection thread, which is aseptically adapted with the help of our
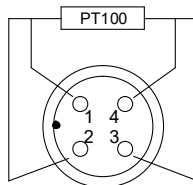welding sleeve (ZEM 150 or KEM 150).
You will benefit from the very high quality and durability of the sensor, which is
achieved by using high-quality materials. Even in rough industrial environments this
sensor can be used without any problems.

Pin assignment

1 (brown)
+ voltage
10...35 VDC

1 4
2 3

3 (blue)
output 4...20 mA

M12 plug with PMU

PT100

1 4
2 3

1 (brown)
2 (white)
3 (blue)
4 (black)

M12 plug (only PT100)

Technical drawing

LTS 450

Mounting length
91
Ø6
G 1/2"
SW 24
M12

LTS 450 with PMU
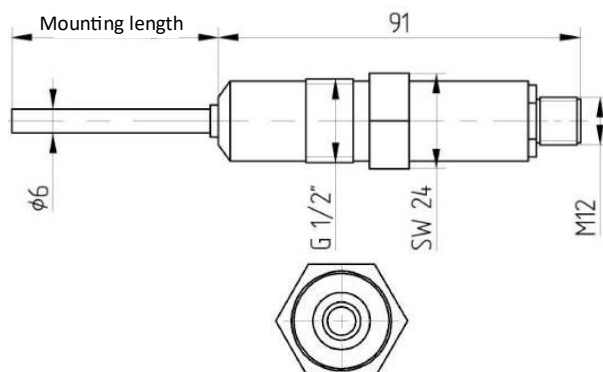
Mounting length
108
Ø6
G 1/2"
SW 24
M12
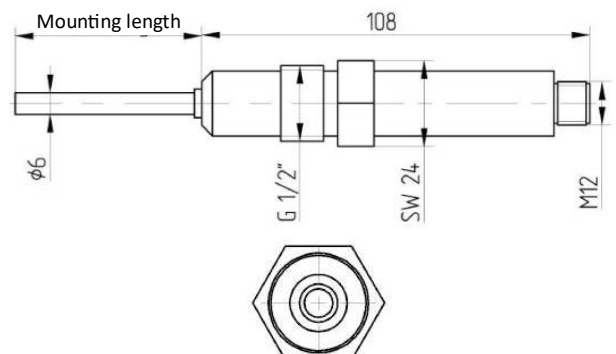
Order-code LTS 450

order example: LTS 450-9-A-1A-PMU (0-100 °C)

Kind of connection

-9   compact construction, directly with M12-plug, protection class IP69K

Mounting length

-A   50 mm mounting length
-B   100 mm mounting length
-C   150 mm mounting length
-D   200 mm mounting length
-E   250 mm mounting length
-F   300 mm mounting length
-K   mounting length on customer's wish (please specify length)

Type of sensor and tolerance

-1A   1xPT100 class A
-KX   other types of sensor and tolerance on customer`s request

Tapered measuring point

-V0 (without description)   without taper
-V3   tapered to 3 mm
-V4   tapered to 4 mm

Optional

-PMU   with measuring transducer (please specify required temperature range and configuration)

Accessories

Welding sleeves

-99-000191   KEM 150, welding sleeve, bullet, for G1/2" sealing system, diameter 35 mm,
                                 hygienic process adaption
-99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30 mm,
                                 hygienic process adaptation

M12-connection wires

-101090   connection cable M12 angled, 4-pole, 5m PVC cable,grey
-101087   connection cable M12 straight, 4-pole, 5m PVC cable, grey

Other lengths available on request.

For more accessories, see accessories data sheet.

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