⊛ LAPP

EPIC® SENSORS W-E-Ø-HST-S / W-E-Ø-HST-CLAMP
Acid proof temperature sensor for hygienic installation

Features

- temperature range *⁾ -200...+550 °C
- shaped for hygienic installations
- neck pipe for heat source clearance
- all parts made of acid proof steel
- Pt100 as sensing element
- Pt100 accuracy class A as standard delivery
- mounting by weldable ball flange or with tri-clamp fitting
- thermowell material according to the application
- MI cable structured inner element
- inner element replaceable on the fly
- vibration proof
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex i versions available
- 3D step models available on request.

Typical applications

- food industry
- pharmaceutical industry
- chemical industry
- process industry
- energy and power plant technology
- machinery and vessel construction
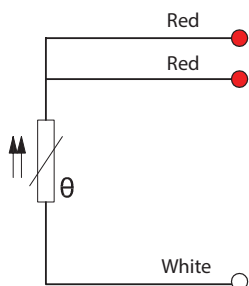- manufacturing industry.

Technical data

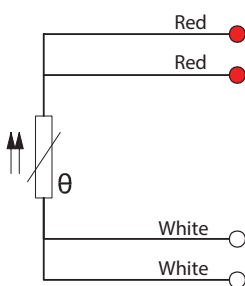| *⁾ **Materials**	AISI 316 L, max. temperature +550 °C, temporarily +600 °C, other materials on request
Tolerances Pt100 (IEC 60751)	AA tolerance ±0.1 + 0.0017 x t, operating temperature -50...+250 °C A tolerance ±0.15 + 0.002 x t, operating temperature -100...+450 °C B tolerance ±0.3 + 0.005 x t, operating temperature -196...+600 °C B 1/3 DIN, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature -196...+250 °C
*⁾ **Temperature range Pt100**	-200...+550 °C, depending on materials and neck pipe length
Approvals	ATEX, IECEx
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV
IP rating	IP65, higher IP rating on request

EPIC® SENSORS W-E-Ø-HST-S / W-E-Ø-HST-CLAMP
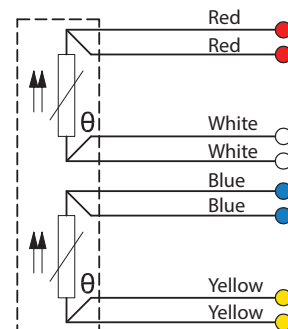**Acid proof temperature sensor**

Pt100 connections

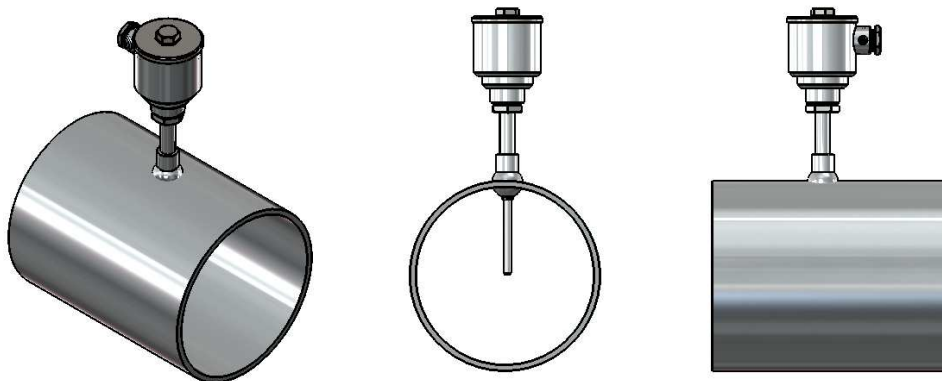1x Pt100, Class A, 3-wire,
connection acc. to standards EN 60751

Red
Red
White
θ

1x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751
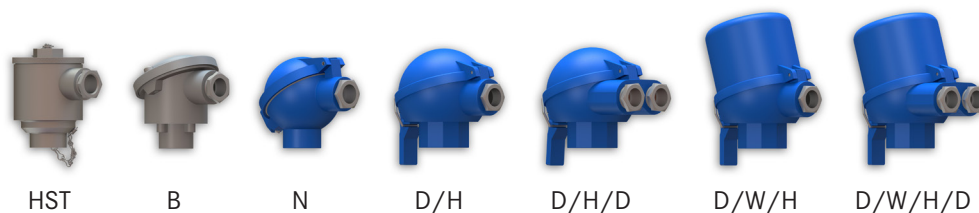
Red
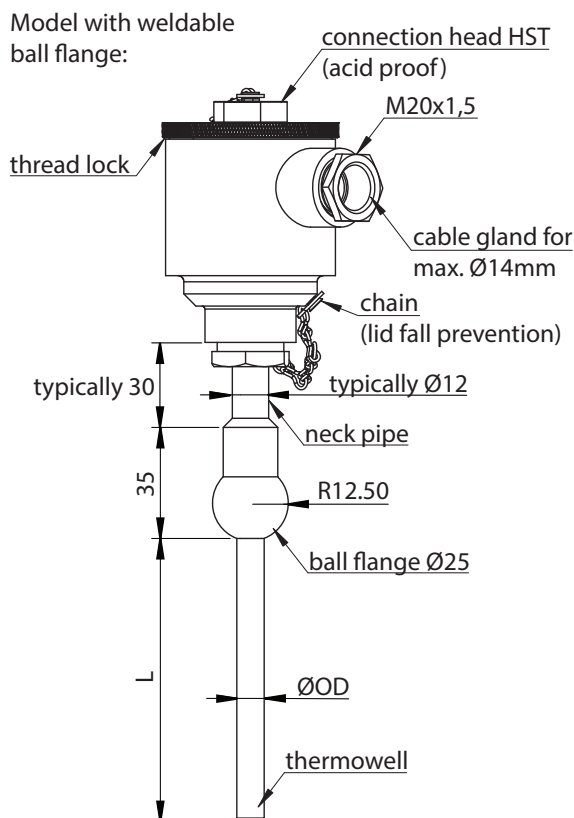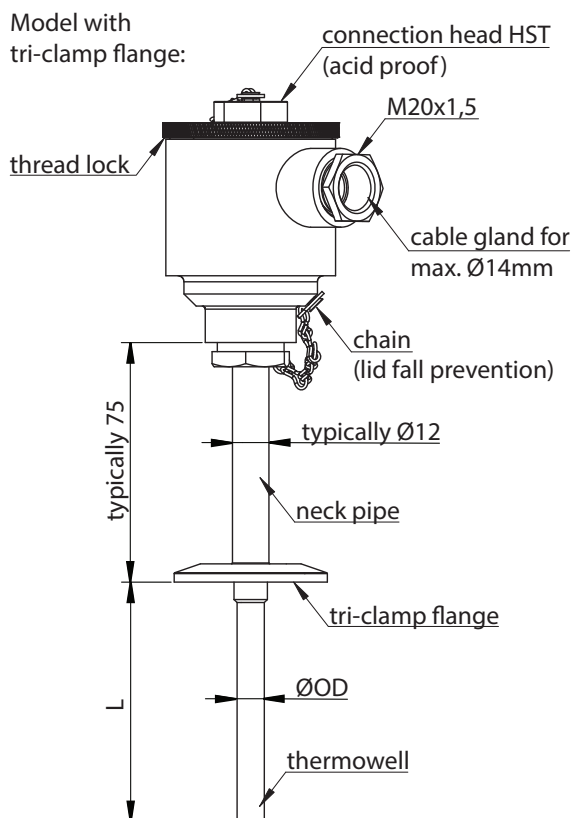Red
White
White
θ

2x Pt100, Class A, 4-wire,
connection acc. to standards EN 60751

Red
Red
White
White
Blue
Blue
Yellow
Yellow
θ
θ

Installation examples

Connection heads

HST   B   N   D/H   D/H/D   D/W/H   D/W/H/D

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Acid proof temperature sensor

Drawing

Model with tri-clamp flange:

- connection head HST (acid proof)
- thread lock
- M20x1,5
- cable gland for max. Ø14mm
- chain (lid fall prevention)
- typically 75
- typically Ø12
- neck pipe
- tri-clamp flange
- L
- ØOD
- thermowell

Model with weldable ball flange:

- connection head HST (acid proof)
- thread lock
- M20x1,5
- cable gland for max. Ø14mm
- chain (lid fall prevention)
- typically 30
- typically Ø12
- neck pipe
- 35
- R12.50
- ball flange Ø25
- L
- ØOD
- thermowell

Product code key

Example code: W — E — 6 — HST — S — 500 — 4 — A — TR — X

Code	Description
W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
E	= sensor for food processing industry (constant in code)
6, 9, 11	= outer diameter of thermowell (ØOD) [mm] (other diameters on request)
B	= connection head B
D/H	= connection head with snap lock
D/H/D	= connection head with snap lock and double barrel (2x cable gland)
D/W/H	= high cover connection head with snap lock
D/W/H/D	= high cover connection head with snap lock and double barrel (2x cable gland)
HST	= acid proof connection head
N	= connection head N
S	= with weldable ball flange Ø25 mm
CLAMP/51	= tri-clamp flange with diameter Ø51 mm (all sizes available)
500	= immersion length, L [mm]
4,3,2	= Pt100 wire count
A,B	= Pt100 accuracy class, (class A as standard delivery)
TR	= wires for transmitter connection
CB	= with ceramic terminal block
EXI	= Ex i certified sensor
X	= additional details on the text line