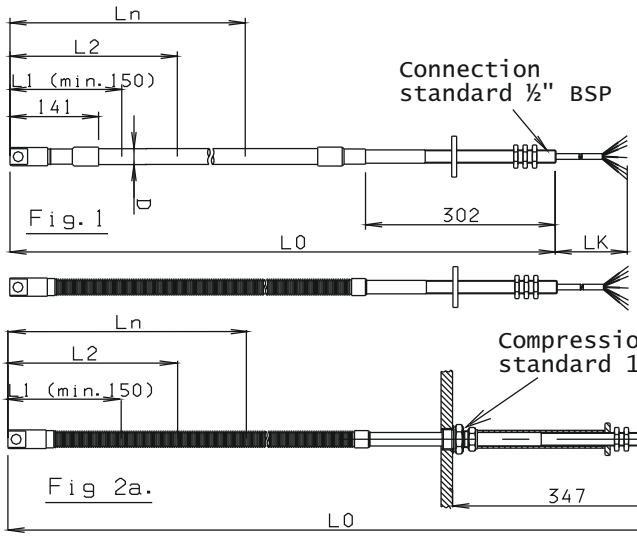
Resistance thermometer TYPE NLI

Multi-spot Thermometer

- Type NLI is a multi-spot thermometer for measurement of average temperatures, primarily in stationary tank systems, with requirements to the tolerance and the response time of the temperature measurement. Type NLI is often used in connection with measuring of volume in e.g. oil or bitumen or for estimating the accumulated energy in bulk storing tanks.
- The measuring elements are according to EN 60751. Min. 150 mm from bottom of the sensor to the first spot and minimum 850 mm from top of sensor to the last spot.
- Flex tube of stainless steel, PTFE (not Atex), standard ¾ or 1".
- Accessories: Flanges, weights, terminal boxes and transmitters (see separate data sheet).
- Technical information regarding material and connection diagrammes: see separate data sheet.
- Approvals: ATEX - all types except PTFE.
  IECEx FME08.0007X
  FM08ATEX0060X
- CE 0402 Ex II 1G FM APPROVED
- Temp. range: -50°C to +130°C: Ex ia IIC T4T
- Temp. range: -50°C to +250°C: Ex ia IIC T2



Ordering: See ordering form on back page

Type NLI .....

V2.8

Placement of spots

Overall length./LO
Min. 950/
max. 70000 mm .....

Sheath dia.
1" (max. 20 elements) 1
¾" (max. 15 elements) 2
Ø20 mm PTFE (max. 10/15 elements) 3
Not Ex-approved

Material
AISI 316 1
PTFE (not ATEX-approved) 3

Connection - Type
1/2" BSP 1
M33x1.5 7
1½" ANSI 150 psi 21
2" ANSI 150 psi 22
3" ANSI 150 psi 23
4" ANSI 150 psi 24
6" ANSI 150 psi 25
8" ANSI 150 psi 26
10" ANSI 150 psi 27
1½" ANSI 300 psi M33x1.5 31
2" ANSI 300 psi M33x1.5 32
3" ANSI 300 psi M33x1.5 33
4" ANSI 300 psi M33x1.5 34
6" ANSI 300 psi M33x1.5 35
8" ANSI 300 psi M33x1.5 36
10" ANSI 300 psi M33x1.5 37
DN50 PN16 M33x1.5 41
DN50 PN40 M33x1.5 42
DN65 PN16 M33x1.5 43
DN65 PN40 M33x1.5 44
DN80 PN16 M33x1.5 45
DN80 PN40 M33x1.5 46
DN100 PN16 M33x1.5 47
DN100 PN40 M33x1.5 48

Cable lead-out - total length LK mm

1 ..... Junction box ½" BSP M25×1.5 cable conn.
2 ..... Junction box M33x1.5 M25x.15 cable conn.
3 ..... Junction box 1/2"BSP M32x1.5 cable conn.

Or:
Optional length/mm - min. 500 - max. 35000

1. spot	
2. spot	
3. spot	
4. spot	
5. spot	
6. spot	
7. spot	
8. spot	
9. spot	
10. spot	
11. spot	
12. spot	
13. spot	
14. spot	
15. spot	
16. spot	
17. spot	
18. spot	
19. spot	
20. spot	

Temperature range
1 ..... -50 / +120°C (SS)
2 ..... -50 / +200°C (SS)
3 ..... -20 / +250°C (SS)

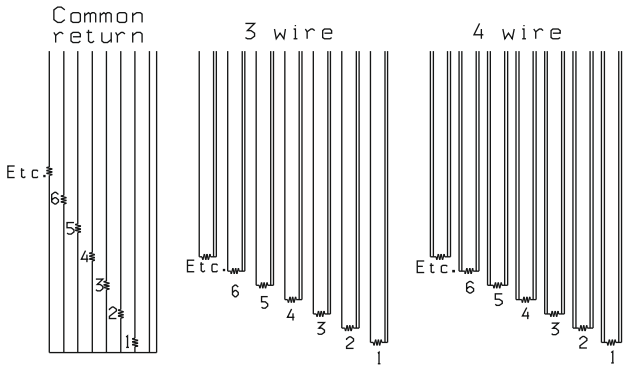
Tolerance class
1 ..... A ±0.15 °C
2 ..... B ±0.3 °C
3 ..... 1/3B ±0.1 °C
4 ..... 1/6B ±0.05 °C
5 ..... 1/10B ±0.03 °C

Sensing element
1 ..... 1×Pt-100
2 ..... 2×Pt-100

..... **Number of spots**

Number of conductors
3 ..... 3 cond. (max. 14 elements)
4 ..... 4 cond. (max. 11 elements)
5 ..... Common return (max. 20

Connection diagram:



Element No.	Insulation color codes		
	Common return	3 wire	4 wire
1	brown	brown-black,black	brown,brown-black,black
2	red	red-black,black	red,red-black,black
3	orange	orange-black,black	orange,orange-black,black
4	yellow	yellow-black,black	yellow,yellow-black,black
5	green	green-black,black	green,green-black,black
6	blue	blue-black,black	blue,blue-black,black
7	grey	violet-black,black	violet,violet-black,black
8	grey	grey-black,black	grey,grey-black,black
9	white	white-black,black	white,white-black,black
10	pink	pink-black,black	pink,pink-black,black
11	brown/black	brown/black-black,black	brown/black,brown/black-black,black
12	red/black	red/black-black,black	red/black,red/black-black,black
13	orange/black	orange/black-black,black	orange/black,orange/black-black,black
14	yellow/black	yellow/black-black,black	yellow/black,yellow/black-black,black
15	green/black	green/black-black,black	green/black,green/black-black,black
16	blue/black	blue/black-black,black	blue/black,blue/black-black,black
17	violet/black	violet/black-black,black	violet/black,violet/black-black,black
18	grey/black	grey/black-black,black	grey/black,grey/black-black,black
19	white/black	white/black-black,black	white/black,white/black-black,black
20	pink/black	pink/black-black,black	pink/black,pink/black-black,black

Senmatic A/S
Industrivej 8, 5471 Søndersø, Denmark
Phone: +45 64 89 22 11
dk@senmatic.com - www.senmatic.com