

Resistance Thermometer

Type XI-TOPSW, XI-APTOSW

Edition 2016

INTRINSICALLY SAFE TEMPERATURE SENSORS

for mines M1, gas G and dust D atmospheres

ATEX Marking:

CE I M1 Ex ia I Ma
CE II 1/2 G Ex ia II C T... Ga/Gb
CE II 1/2 D Ex ia IIIC T... Da/Db

EAC Ex Marking:

PO Ex ia I Ma X
0Ex ia IIC T...Ga X
0Ex ia IIIC T...Da X



TECHNICAL DATA

Description

- intrinsically safe for mines M1, gas G and dust D atmospheres
- single and double RTD
- exchangeable mineral insulated measuring insert
- connection head types: XE-DANA (G1); XE-DANAW (G2); XE-DAND (G5); XE-DANDW (G6); XE-BE (E1); XE-BED (E2); IP65 ; ATEX II 2 GD (see technical information)
- thermowell for weld-in, to high pressures
- cable gland ATEX I M1, II GD, IP65; (cable dia. 5..10mm)*
- output signal: RTD or 4-20mA (option)

Design temperature range

-200 .. +550°C

Sensing element

1x or 2xPt100

acc. to EN 60751 class A, B

Thermowell type „SW”

Material

steel 15HM (1.7335) or other*

Diameter [mm]

Ø18 mm – SW1; Ø24 mm – SW2

Length L/L₁ [mm]

100/35, 140/65, 200/65 mm – for SW1

140/35, 200/65, 260/65 mm – for SW2

Temperature transmitter (option)

PR5333D, PR5335D (HART®), PR5350B (Profibus®PA), FlexTop2211, FlexTop2221 (HART®), FlexTop2231 (Profibus®PA), dTRANS T01 956555, dTRANS T01 956556 (HART®)

Remarks

*other parameters on request

ORDERING CODE

Temperature sensor XI - [] [] TOP [] - [] - [] / [] - [] - [] - [] - [] - [] - []

without transmitter: **without mark**

with transmitter: **AP**

with two transmitters: **2AP**

single: **without mark**

double: **2**

diameter: Ø18[mm] – **SW1**, Ø24[mm] – **SW2**

connection head type: **G1, G2, G5, G6, E1, E2**

length L [mm]: **see specification**

length Led [mm]: **165** (without mark), **250, 80** or other*

material: **1.7335** or other*

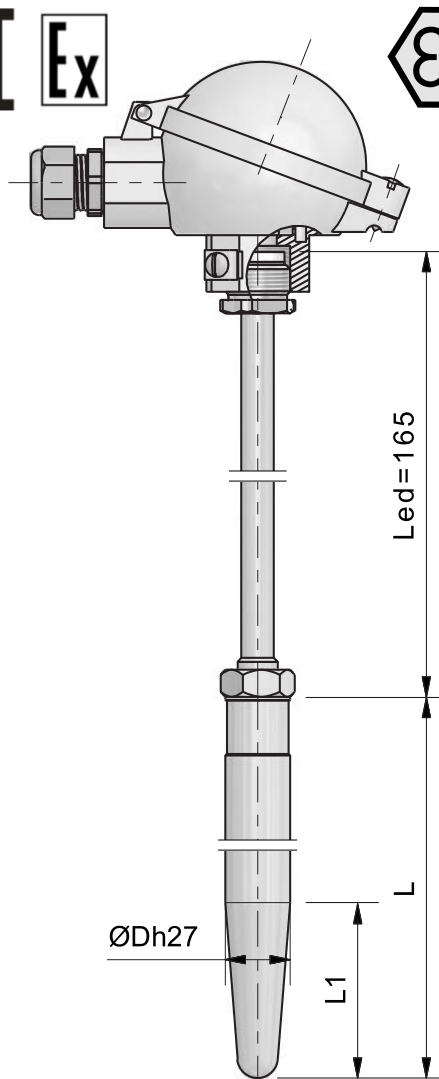
RTD class: **A, B**

connection line: **2-, 3-, 4-wire** for 1xPt100; **2-, 3-wire** for 2xPt100

measuring range for transmitter output 4-20 mA: **(...)**°C

transmitter type **(see specification)**

diameter of supply cable (for cable other than) 5..10mm **(...)**



EXAMPLE:

Temperature sensor XI-2TOPSW2-G5-200-15HM-A-3

Temperature sensor XI-APTOSW1-G2-200/250-15HM-A-3-(0-400)°C-PR5333D