

Type 11281

Temperature sensors Pt to 180°C

- cable flange

Characteristics

Sensor 1x Pt 500, Pt 1000

4-wire connection

Accurate measuring.

Technical data

Measuring range: -40 to +180°C

Measuring current: to 1mA

Tolerance class: A, B according to ČSN EN 60751

Protection class: IP 67

Temperature reaction time: water 3 s, air 15 s

Rated values of measuring resistance Pt for information purposes depending on temperature (ČSN EN 60751)

t [°C]	Pt100 [Ω]	t [°C]	Pt100 [Ω]	t [°C]	Pt100 [Ω]
-40	84,27	40	115,54	120	146,07
-30	88,22	50	119,40	130	149,83
-20	92,16	60	123,24	140	153,58
-10	96,09	70	127,08	150	157,33
0	100,00	80	130,90	160	161,05
10	103,90	90	134,71	170	164,77
20	107,79	100	138,51	180	168,48
30	111,67	110	142,29	190	172,17

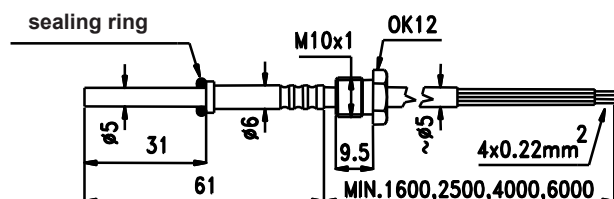
Description - use

The sensors are designed for temperature measuring. The sensor signal can be evaluated for temperature measuring registration or signalisation. The product is subject to ČSN EN 60751. Connection by means of silicone cable

Sensors form measuring resistance Pt encased in copper casing with Al sleeve screw, signal output by 4-wire silicone cable.

Dimension drawing

- sensor



Material: casing - stainless steel class 17, screw - Al, cable

Accessories upon order

- silicone sealing ring

Order No.	Dimension
405 911 083 516	4.6 x 2.3

Permitted resistance deviations of Pt sensors from rated values for tolerance classes specified in °C

Tolerance class	Tolerance $\Delta T/K$ temperature t in °C	tolerance at t = 0 °C	
		$\Delta T/K$	Pt 100 [Ω]
A ČSN EN 60751	$\pm 0,15 + 0,002 t $	$\pm 0,15$	99,94 to 100,06
B ČSN EN 60751	$\pm 0,30 + 0,005 t $	$\pm 0,30$	99,88 to 100,12

Warranty

24 months warranty is provided from the delivery date unless specified otherwise in the purchase contract.

Due to continual technical development the manufacturer reserves the right to change parameters without prior notification.

Ordering devices

Code	Name						
405 112 81	Cable flange temperature sensor						
	Code	Measuring resistance					
	2	1 x Pt 500					
	3	1 x Pt 1000					
		Code	Design				
		3	Flange				
			Code	Tolerance class			
			1	A according to ČSN EN 60751			
			2	B according to ČSN EN 60751			
				Code	Cable type, length		
				1	1.6 m		
				2	2.5 m		
				3	4 m		
				4	6 m		
				5	1.6 m screened		
				6	2.5 m screened		
				7	4 m screened		
				8	6 m screened		
405	112	81	2	3	2	1	Ordered No.

Order example:

1 flange temperature sensor, type 11281, 1xPt 500, tolerance class B, cable length 1,6 m

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