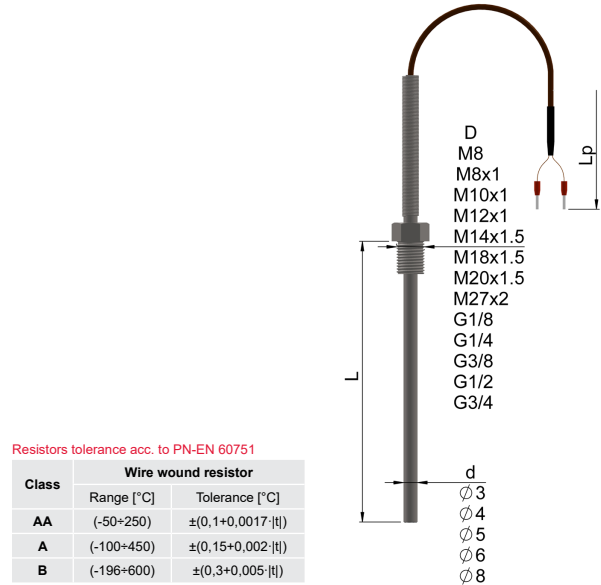


Intrinsically safe temperature sensors of machinery and device parts **TOPE-363Exi, TTJE-363Exi, TTKE-363Exi, TTNE-363Exi**

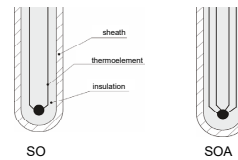


Technical description

Measuring range / sensing element		
(-50 ÷ 400) °C	Pt100	class B
(-40 ÷ 400) °C	J, K, N	class 2
(-40 ÷ 350) °C	T	class 2
Thermowell		
- material: steel 1.4541		
- welded threaded connector		
- length L [mm]: 50÷1000		
Wire		
- Cu wire or thermocouple wire: 0,22 mm ² in mineral insulated insulation with metal braid, operating temperature up to 400 °C		
- Cu wire or thermocouple wire: 0,22 mm ² in silicone insulation, operating temperature up to 180 °C		
- length L _p =1,5m (standard)		
- wires resistance Cu ~0,14Ω/m~-0,36 °C		
Construction version		
- Exi acc. to ATEX		
- WE Type-Examination Certificate: KDB 07ATEX055		
II 2G Ex ia IIC T6		
II 1D Ex ia IIIC T85 °C		
- measuring junction: isolated SO (Single), SOA (double)		
Options		
- Pt500, Pt1000		
- 3-, 4-wire connection for RTD		
- Pt100: class A (-30 ÷ 250) °C, class AA (0 ÷ 150) °C; TC class 1		



Types of measuring hot junction



Ordering code

Temperature sensor	...	T	...	E-363Exi	-
Single	no sign												
Double (d > 4)	2												
Resistor Pt		OP											
Thermocouple Fe-CuNi; NiCr-NiAl		TJ; TK											
Thermocouple Cu-CuNi; NiCrSi-NiSi		TT; TN											
Sheath length L [mm]				100*									
Sheath diameter d [mm]					6*								
Cable insulation: silicone								Si					
Cable insulation: braided fiberglass								Ws					
Resistor type								Pt100*					
Hot junction type for TC								SO, SOA					
Resistor class									A, B*				
Thermocouple class									1, 2				
Measuring circuit for RTD										2, 3, 4			
Thread dimension											M12x1,5*		
Cable length L _p [m]												1,5m*	

* or others acc. to requirements

Ordering example

TOPE-363Exi-80-6-Ws-Pt100-B-3-M12x1-3m sensor with Pt100, class B, 3-wire connection, sheath length L=80 mm, and diameter d = 6 mm with welded connector M12x1, lead wire in fiberglass insulation with metal braid and length L_p = 3m