Industrial Explosion-proof Thermocouple ZST15/20 ZST15/10

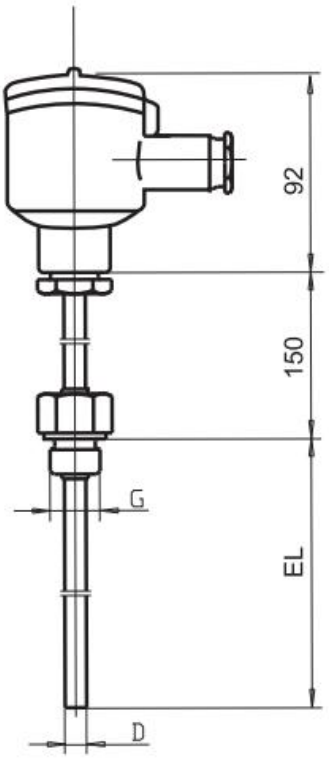
It is a kind of temperature sensor, which is widely used in the field of industrial automatic control. Through this temperature sensor, the temperature parameter of the controlled object can be turned into an electrical signal, which is used to detect, adjust and control the system.

The production site is often accompanied by various inflammable and explosive chemical gases, steam, etc. It is very unsafe to use ordinary temperature sensors to measure the temperature, and it is very easy to cause the explosion of the ambient gas. Therefore, flameproof thermocouples must be used as temperature sensors. The explosion-proof thermocouple products produced by our company are suitable for places with explosion hazard in the DIICT6 temperature range.

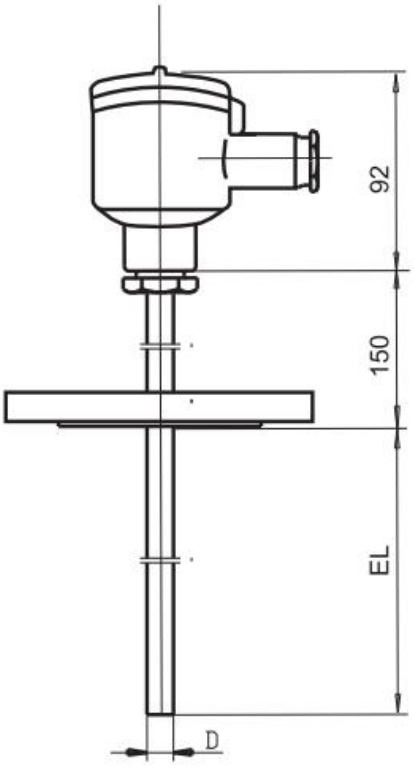
Technical Data

Junction Box	Stainless steel castings
Process connection	Thread
	Flange Power connector M22×1.5 -6g
Protection Tube	Stainless steel 1.4571, φ11mm
Mearsuing Probe	1×NiCr — NiSil (K) 2x NiCr — NiSil (K) 0
	1xNiCr — CuNi (E) 2x NiCr — CuNi (E) 0-600℃

External Size

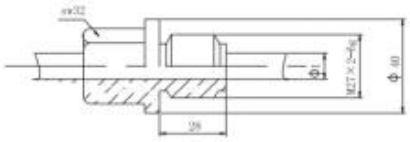
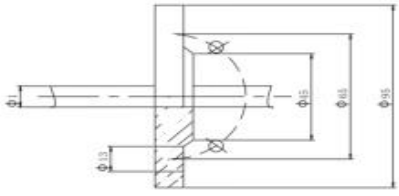


ZST15/10

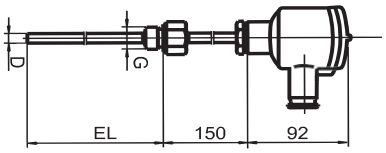


ZST15/20

Process Connection

Process Connection	Diagram	Protection Tue ID(mm)	Working Pressure (Mpa)
Fixed Thread		11	10
Fixed Flange		11	2.5

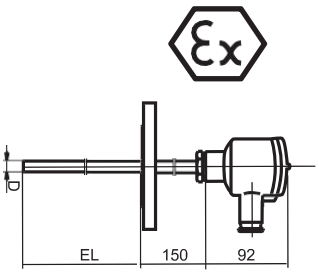
Ordering Guide: explosion-proof thermocouple for process control, with NEPSI explosion-proof certificate
Ex ia IIC T1 ... T6
Ex d 1IC T1 ...T6



ZST15/10 Screw-in thermocouple Intrinsically safe explosion-proof Ex i & explosion-proof Ex d

Series Code	ZST15/10	-	X	-	X	-	X	-	X	X	-	X	-	X
Temp Range	-200~+600C°		150											
	-200~+800C°		165											
Thermocouple Probe	1 x NiCr-Ni K				K1									
	2 x NiCr-Ni K				K2									
Protection Tube ID	θ 6x0.5mm(not applicable to zone 0 (IG) or zone 20 (1D)						6							
	θ 9x1 mm (not applicable to zone 0 (IG) or zone 20 (1D)						9							
	θ 11x 2 mm						11							
	θ 12 x 2 mm						12							
Insertion Length EL (EL50...1000)	50mm								50					
	100mm								100					
	150mm								150					
	Optional Length (Mini Interval 50mm)													
Process Connection	Frange DN 25 PN40,DIN2501									642				
	Frange DN 40 PN40,DIN2501									644				
Material	Stainless Steel 1.4571											26		
	Stainless Steel 316L											24		
Additional Items	Junction Box BUZ													320
	Junction box BUZH													321
	Junction Box BEGF													397
	Stainless steel explosion-proof junction box XD,explosion-proof spec GB386.1/2(NEPSI), not including 662													545
	Intrinsically safe explosion-proof specifications GB3836.1/4(NEPSI)													662

ZST15/20 Plug-in thermocouple Intrinsically safe explosion-proof Ex i & explosion-proof Ex d



Series Code	ZST15/20	-	X	-	X	-	X	-	X	X	-	X	-	X
Temp Range	-200~+600C°		150											
	-200~+800C°		165											
Thermocouple Probe	1 x NiCr-Ni K				K1									
	2 x NiCr-Ni K				K2									
Protection Tube ID	θ 6x0.5 mm(not applicable to zone 0 (IG) or zone 20 (1D)						6							
	θ 9x1 mm (not applicable to zone 0 (IG) or zone 20 (1D)						9							
	θ 11x 2 mm						11							
	θ 12 x 2 mm						12							
Insertion Length EL (EL50...1000)	50mm								50					
	100mm								100					
	150mm								150					
	Optional Length (Mini Interval 50mm)													
Process Connection	Frange DN 25 PN40,DIN2501									642				
	Frange DN 40 PN40,DIN2501									644				
Material	Stainless Steel 1.4571											26		
	Stainless Steel 316L											24		
Additional Items	Junction Box BUZ													320
	Junction box BUZH													321
	Junction Box BEGF													397
	Stainless steel explosion-proof junction box XD,explosion-proof spec GB386.1/2(NEPSI), not including 662													545
	Intrinsically safe explosion-proof specifications GB3836.1/4(NEPSI)													662