

- Protection Classification: IP67
- Visual indication makes the control of this sensor easier
- High accuracy and stability.
- It is lear to understand the status of output and current unit through distinctive LEDs.
- Certification:CE、RoHS



Applications

Temperature sensor is used very extensively in a variety of field in industrial automation such as boiler system, cooling system, air conditionersystem, temperature control system of warehouse, and etc.

Operating principle

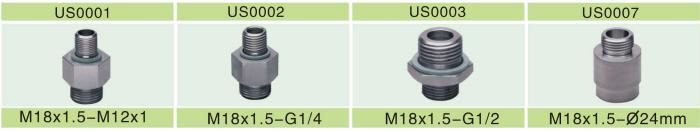
ema's temperature sensor detects the operating temperature by RTD probe and then transmit the data to examining circuit. After processing, the current operating temperature is displayed through LED and transfer automatically the value set by the user to the digital signal (NPN, PNP) or analog signal (0–10V, 4–20mA).

Socket											
Type	Socket Part No.										
THE TOTAL PROPERTY OF THE PARTY	С	02	L	5	С	12					
l L	C: Cable	Length 02: 2m 05: 5m 10: 10m	Connecter I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12					



Temperature sensor

Accessories



IVI I O	X1.5-W12X	I IVI	18X1.5-G1	/4 IV	118X1.5-G	1/2	18X1.5-W2	4mm	
Technical d	ata								
	Operating voltage [V] 1836VDC								
	Load current[m	nA]				0			
	Voltage drop [V] <2								
	Current consu	mption [mA]				0			
	Digital output					е			
	Analog output				4.	le			
	Analog output	4–20mA load [Ohm]			0			
	Analog output	4-20mA load [Ohm]			00			
	Accuracy								
	Switching outp	ut[°C /°F]			$\pm 0.2/\pm 0.36$				
	Analog output	[°C/°F]			$\pm ($ 0.2/0.36+0.4% of the set measuring span $)$)	
	Display [°C/°F] ±(0.2/0.36+1							i)	
	Resolution								
	Switching output [°C/°F]							1	
	Analog output [°C/°F] 0.125/0.23							3	
	Display [°C/°F] 0.5/0.5								
	Temperature drift [% of value of measuring range/10K] \pm 0.1								
	Measuring / display cycle [ms] 200								
	Power-on delay time [s]								
	Housing material Stainless steel Aluminum(S304);PBT+30%GF								
	Operating temperature [°C] -25+70								
	Storage temperature [°C] -40+85								
	Protection IP 67								
	Insulation resistance [M Ω] > 100 (500 V DC)								
	Shock resistance [g] 50								
	Vibration resistance [g] 20								
	EMC								
	IEC 1000/4/2 ESD: 4/8KV								
	IEC 1000/4/3 HF radiated: 10V/m								
	IEC 1000/4/4 Burst: 2KV								
	IEC 1000/4/6 H	IF conducted:					10)V	
Part No.	Display	Thread	Sensing range	Electric design	Input voltage	Output1	Output2	Programmable	
TA1001	7 LED	M18 X 1.5	- 40°C~+150°C	4-wire	18~36 VDC	PNP NO/NC, NPN NO/NC	0~10V, 4~20mA	Yes	