


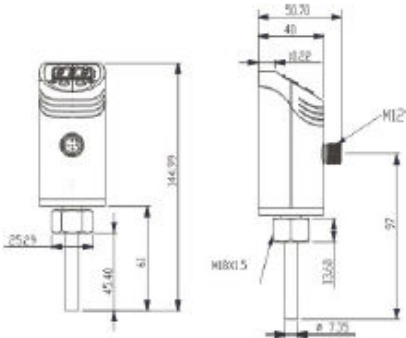
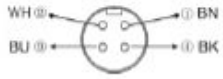


<p>TA1001 Smart Temperature Sensor Compact type for adaptor M12 socket Process connection Internal thread M18 x 1.5 for adaptor Switching output, analog output 4...20mA; 0...10V 7-segment LED display Measuring range -40...150°C/-40...303°F</p>	 <p>CE RoHS</p>
Application	Liquid and Gas
Electric design	DC PNP/NPN
Output	N.O.  /N.C.  Analog output (4...20mA);(0...10V)
Operating voltage [V]	18...36 DC
Current rating [mA]	≥300
Short-circuit protection	Yes (non-latching)
Reverse polarity protection	Yes
Overload protection	Yes
Integrated watchdog	Yes
Voltage drop[V]	<2
Current consumption [mA]	<50
Analog output	4...20mA(Rmax:500Ohm);0...10V(Rmin:2000Ohm)
Pressure rating [bar]	300
Setting range	
Analog start · ASP[°C/°F]	-40...140 / -40...284
Analog end point · AEP[°C/°F]	-30...150 / -22...302
Set point, SP[°C/°F]	-39.5...150 / -39...302
Reset point, rP[°C/°F]	-40...149.5 / -40...301
In steps of [°C/°F]	0.5/1
Programming options	Hysteresis/Window;Normally Closed/Open;Min./Max.Memory Meset;°C/°F Selectable
Adjustment of the switch point	Programming pushbutton
Accuracy	
Switching output [°C/°F]	±0.2/±0.36
Analog output [°C/°F]	±(0.2/0.36+0.4% measuring interval)
Display[°C/°F]	±(0.2/0.36 + 1/2 digit)
Resolution	
Switching output [°C/°F]	0.5/1
Analog output [°C/°F]	0.125/0.23
Display [°C/°F]	0.5/1
Temperature drift(/10K)	0.1
Power-on delay time [s]	1.5
Measuring element [ms]	200
Pressure rating [bar]	300
Operating temperature [°C]	-25...80
Storage temperature [°C]	-40...100

Protection classification	IP67
Dimension	
Insulation resistance [MΩ]	>100 / 500V DC
Shock resistance [g]	50
Vibration resistance [g]	20
Housing material	Alumium alloy;Stainless steel(S304) · PBT+30%GF
Materials (wetted parts)	Stainless steel(S304)
Function display Switching status LED	Red LED
Display	7-segment LED display
Connection	M12 connector
Wiring	<p>Core color</p>  <p>Programming of the output function Hno=hysteresis/N.O. Hnc=hysteresis/N.C. Fno=window function /N.O. Fnc=window function /N.C.</p> 