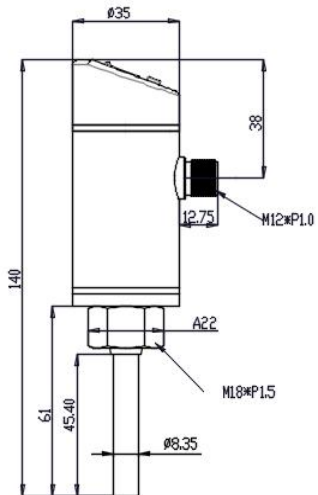
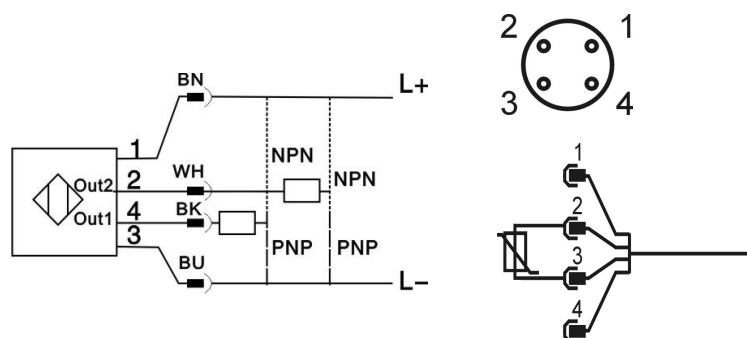

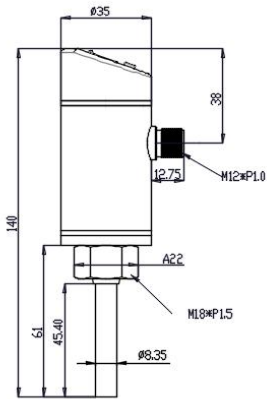
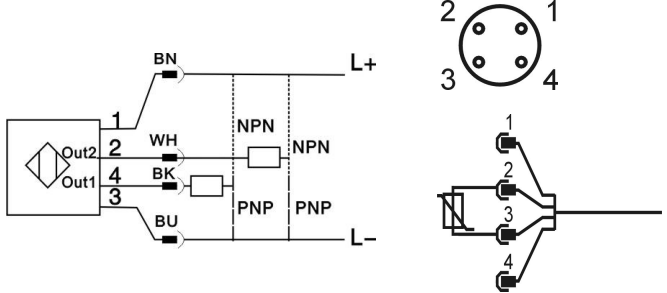





<p>TA1004                  Electronic Temperature Sensors                  M12 socket                  Connection: Internal thread M18 x 1.5                  Programmable                  Switching + Analogue output                  3 digit display                  Sensing range                  -40...150°C                  -40...302°F</p>	 <p>CE RoHS</p>
Applications	Liquid and gas
Output	NO  / NC  Analogue output 4...20mA, 0...10V
Supply voltage[V]	18...36 DC
Max. overload current[mA]	300
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<50
Analogue output	4...20mA (Rmax:5000 Ohm) / 0...10V (Rmin:1000 Ohm)
Setting range	
Analogue start point ASP[°C/°F]	-40...140 / -40...284
Analogue end point AEP[°C/°F]	-30...150 / -22...302
Switching point SP[°C/°F]	-39.5...150 / -39...302
Reset point rP[°C/°F]	-40...149.5 / -40...301
In steps of	0.5/1
Programming options	Hysteresis range / Window function, NO / NC Min/Max, Factory reset, °C/°F
Adjustment of switching point	via pushbuttons
Accuracy	
Switching accuracy[°C/°F]	±0.2/±0.36
Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)
Display[°C/°F]	±( 0.2/0.36+1/2)
Resolution	
Switching output [°C/°F]	0.5/1
Analogue output[°C/°F]	0.125/0.23
Display[°C/°F]	0.5/1
Temperature drift(/10K)	0.1




Startup delay time[s]	1.5
Measuring/Display cycle[ms]	200
Ambient temperature [°C/°F]	-40...150/-40...302
Medium temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 ( 500V DC)
Protection/Enclosure Rating	IP68
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Function LED/output status	Red LED
Connection	M12 socket
Wiring	
Core color	
Programming of the output function: Hno= hysteresis / NO Hnc= hysteresis / NC Fno= window function / NO Fnc= window function / NC	

<p>TA1005                  Electronic Temperature Sensors                  M12 socket                  Connection: Internal thread M18 x 1.5                  Programmable                  Switching output                  3 digit display                  Sensing range                  -40...150°C                  -40...302°F</p>	 <p>CE RoHS</p>		
Applications	Liquid and gas		
Output	OUT1	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC
	OUT2	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC dES= diagnosis output / NC
Current consumption[mA]	<50		
Supply voltage[V]	18...36 DC		
Short-circuit protection	Pulsed		
Reverse polarity protection	yes		
Overload protection	yes		
Watchdog	yes		
Voltage drop[V]	<2		
Setting range			
Analogue start point ASP[°C/°F]	-40...140 / -40...284		
Analogue end point AEP[°C/°F]	-30...150 / -22...302		
Switching point SP[°C/°F]	-39.5...150 / -39...302		
Reset point rP[°C/°F]	-40...149.5 / -40...301		
In steps of	0.5/1		
Programming options	Hysteresis range / Window function, NO / NC		
	Min/Max, Factory reset, °C/°F		
Adjustment of switching point	via pushbuttons		
Accuracy			
Switching accuracy[°C/°F]	±0.2/±0.36		

Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)
Display[°C/°F]	±( 0.2/0.36+1/2)
Switching output [°C/°F]	0.5/1
Analogue output[°C/°F]	0.125/0.23
Display[°C/°F]	0.5/1
Temperature drift(/10K)	0.1
Startup delay time[s]	1.5
Measuring/Display cycle[ms]	200
Ambient temperature [°C/°F]	-40...150/-40...302
Medium temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 ( 500V DC)
Protection/Enclosure Rating	IP68
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Function LED/output status	Red LED
Connection	M12 socket
Wiring	
Core color	
Programming of the output function:	
Hno= hysteresis / NO Hnc= hysteresis / NC Fno= window function / NO Fnc= window function / NC	


<p>TA1006                  Electronic Temperature Sensors                  M12 socket                  Connection: Internal thread M18 x 1.5                  Programmable                  Switching + Analogue output                  3 digit display                  Probe length L=100mm                  Sensing range                  -40...150°C                  -40...302°F</p>	 <p>CE RoHS</p>
Applications	Liquid and gas
Output	NO  /NC 
	Analogue output 4...20mA, 0...10V
Supply voltage[V]	18...36 DC
Max. overload current[mA]	300
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<50
Analogue output	4...20mA(Rmax:5000Ohm);0...10V(Rmin:1000Ohm)
Setting range	
Analogue start point ASP[°C/°F]	-40...140 / -40...284
Analogue end point AEP[°C/°F]	-30...150 / -22...302
Switching point SP[°C/°F]	-39.5...150 / -39...302
Reset point rP[°C/°F]	-40...149.5 / -40...301
In steps of	0.5/1
Programming options	Hysteresis range / Window function, NO / NC
	Min/Max, Factory reset, °C/°F
Adjustment of switching point	via pushbuttons
Accuracy	
Switching accuracy[°C/°F]	±0.2/±0.36
Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)
Display[°C/°F]	±( 0.2/0.36+1/2)
Switching output [°C/°F]	0.5/1
Analogue output[°C/°F]	0.125/0.23
Display[°C/°F]	0.5/1
Temperature drift(/10K)	0.1
Startup delay time[s]	1.5

Measuring/Display cycle[ms]	200
Ambient temperature [°C/°F]	-40...150/-40...302
Medium temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 ( 500V DC)
Protection/Enclosure Rating	IP68
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Function LED/output status	Red LED
Connection	M12 socket
Wiring	
Core color	
Programming of the output function:	<p>Hno= hysteresis / NO                  Hnc= hysteresis / NC                  Fno= window function / NO                  Fnc= window function / NC</p>

<p>TA3201                  Sanitary Temperature Sensors                  M12 socket                  Thread connection: G3/4                  Switching output                  Analogue output 4...20mA,0...10V                  3 digit display                  Sensing range                  -40...150°C/-40...302°F</p>	 <p>CE RoHS</p>
Applications	Liquid and gas
Electric design	DC PNP/NPN
Output	NO  /NC  Analogue output 4...20mA,0...10V
Supply voltage [V]	18...36 DC
Max. overload current [mA]	300
Short-circuit protection	Pulsed
Reverse polarity protection	yes
Overload protection	yes
Watchdog	yes
Voltage drop[V]	<2
Current consumption[mA]	<50
Analogue output	4...20mA(Rmax:500Ohm);0...10V(Rmin:1000Ohm)
Setting range	
Analogue start point ASP , ASP[°C/°F]	-40...140 / -40...284
Analogue end point , AEP[°C/°F]	-30...150 / -22...302
Switching pointSP[°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 range / Window function, NO / NC Min/Max, Factory reset, °C/°F
Adjustment of switching point	via pushbuttons
Accuracy	
Switching accuracy[°C/°F]	±0.2/±0.36
Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)
Switching output [°C/°F]	0.5/1
Analogue output[°C/°F]	0.125/0.23
Display[°C/°F]	0.5/1
Ambient temperature [°C/°F]	-40...100/-40...302
Medium temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 (500V DC)

Protection/Enclosure Rating	IP69K
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless ste304
Probe material/Wetted Parts	Stainless stee316L
Function LED/output status	Red LED
Connection	M12 socket
<p>Connection</p> <p>Programming of the output function:                  Hno= hysteresis / NO                  Hnc= hysteresis / NC                  Fno= window function / NO                  Fnc= window function / NC</p>	<p>0—10V                  4—20mA</p>



<p>TA3202                  Sanitary Temperature Sensors                  M12 socket                  Thread connection: G3/4                  Switching output                  3 digit display                  Sensing range                  -40...150°C/-40...302°F</p>	 <p>CE RoHS</p>		
Applications	Liquid and gas		
Electric design	DC PNP/NPN		
Output	OUT1	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC
	OUT2	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC
dES= diagnosis output / NC			
Current consumption[mA]	<50		
Analogue output	4...20mA (Rmax:5000 Ohm) / 0...10V (Rmin:1000 Ohm)		
Setting range			
Analogue start point ASP[°C/°F]	-40...140 / -40...284		
Analogue end point AEP[°C/°F]	-30...150 / -22...302		
Switching point SP[°C/°F]	-39.5...150 / -39...302		
Reset point rP[°C/°F]	-40...149.5 / -40...301		
In steps of	0.5/1		
Programming options	Hysteresis range / Window function, NO / NC Min/Max, Factory reset, °C/°F		
Adjustment of switching point	via pushbuttons		
Accuracy			
Switching accuracy[°C/°F]	±0.2/±0.36		
Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)		
Resolution			
Switching output [°C/°F]	0.5/1		
Analogue output[°C/°F]	0.125/0.23		
Display[°C/°F]	0.5/1		

Ambient temperature [°C/°F]	-40...100/-40...302
Medium temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 (500V DC)
Protection/Enclosure Rating	IP69K
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Function LED/output status	Red LED
Connection	M12 socket
Wiring	
Programming of the output function: Hno= hysteresis / NO Hnc= hysteresis / NC Fno= window function / NO Fnc= window function / NC	