## efectorsod

### TM4811

TM-050KFEC01- /US/

Temperature sensors

1: 1.5" clamp (ISO 2852)				
L = probe length (corresponds to installation length EL)				
Product characteristics				
Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V				
Quick disconnect				
Process connection: Clamp 1-1.5" ISO 2852				
Installation length EL: 50 mm				
gold-plated contacts				
Connection to control monitor TP / TR				
Measuring range: -40150 °C / -40302 °F				
Measuring element: 1 x Pt 100, to DIN EN 60751, class A				
Application				
Application	liquids and gases (especially fo	r application in hygienic systems)		
Pressure rating [bar	25			
Minimum installation depth [mm	]	15		
Electrical data				
Connection to control monitor	TP / TR			
Protection class				
Measuring / setting range				
	40, 450,00	10,000.05		
Measuring range	-40150 °C	-40302 °F		
Measuring range Accuracy / deviations				
Measuring range Accuracy / deviations Accuracy		-40302 °F + 0.002 x  t )		
Measuring range Accuracy / deviations Accuracy Reaction times	± (0.15 K	+ 0.002 x  t )		
Measuring range Accuracy / deviations Accuracy Reaction times Dynamic response T05 / T09 [s	± (0.15 K			
Measuring range Accuracy / deviations Accuracy Reaction times Dynamic response T05 / T09 [s Environment	± (0.15 K ·	+ 0.002 x  t ) / 3 *)		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   [°C	± (0.15 K -	+ 0.002 x  t )		
Measuring range Accuracy / deviations Accuracy Reaction times Dynamic response T05 / T09 [s Environment	± (0.15 K - 5]	+ 0.002 x  t ) / 3 *) 580		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   [°C   Storage temperature   [°C	± (0.15 K - 5]	+ 0.002 x  t ) / 3 *) 580 100		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   Storage temperature   [°C   Protection	± (0.15 K - 5]	+ 0.002 x  t ) / 3 *) 580 100		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   [°C   Storage temperature   [°C   Protection   Tests / approvals	± (0.15 K   5] 1 /   5] -25   6] -25   6] -40   IP 68 1   DIN EN 60068-2-2-27: 1	+ 0.002 x  t ) / 3 *) 580 100 / IP 69K 50 g (11 ms)		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   [°C   Storage temperature   [°C   Protection   Tests / approvals   Shock resistance   Vibration resistance	± (0.15 K   5] 1 /   5] -25   6] -25   6] -25   6] -40   IP 68 1   DIN EN 60068-2-2-27: 0   DIN EN 60068-2-6 1	+ 0.002 x  t ) / 3 *) 580 100 / IP 69K 50 g (11 ms) 10 g (102000 Hz)		
Measuring range   Accuracy / deviations   Accuracy   Reaction times   Dynamic response   T05 / T09 [s   Environment   Ambient temperature   [°C   Storage temperature   [°C   Protection   Tests / approvals   Shock resistance	± (0.15 K   5] 1 /   5] -25   6] -25   6] -25   6] -40   IP 68 1   DIN EN 60068-2-2-27: 0   DIN EN 60068-2-6 1	+ 0.002 x  t ) / 3 *) 580 100 / IP 69K 50 g (11 ms)		

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#### **Temperature sensors**

Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolished	
Probe diameter	[mm]	6	
Probe length L	[mm]	50	
Installation length EL	[mm]	50	
Housing materials		stainless steel 316L / 1.4404	
Weight	[kg]	0.182	
Electrical connection			
Connection		M12 connector; gold-plated contacts	
3.4			
Remarks			
Remarks		cULus - Class 2 source required *) according to DIN EN 60751 The values for accuracy apply to flowing water.	
Pack quantity	[piece]	1	
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