## efectorsod

## TT9281

TT-050KFBD06- /US/

L = probe length (corre	esponds to insta	llation length EL)	
cULus EC 1935/2004	L		Made in USA
Product characterist	ics		
Temperature sensor fo	or connection to	a control monitor with a max. oper	ating voltage of 32 V
Quick disconnect			
Installation length EL:	50 mm		
gold-plated contacts			
Connection to control	monitor TP / TR	2	
Measuring range: -40.	150 °C / -40	302 °F	
Measuring element: 1	x Pt 100, to DIN	I EN 60751, class A	
Application			
Application			iquids and gases
Pressure rating	[bar]		160
Minimum installation d	epth [mm]		15
Electrical data			
Connection to control	monitor		TP / TR
Protection class			III
Measuring / setting r	ange		
Measuring / setting r Measuring range	range	-40150 °C	-40302 °F
Measuring range		-40150 °C	-40302 °F
			-40302 °F 0.15 K + 0.002 x  t )
Measuring range Accuracy / deviation			
Measuring range Accuracy / deviation Accuracy			
Measuring range Accuracy / deviation Accuracy Reaction times	S		0.15 K + 0.002 x  t )
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response	s T05 / T09 [s]		0.15 K + 0.002 x  t )
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment	S		0.15 K + 0.002 x  t ) 1 / 3 *)
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature	s T05 / T09 [s]		0.15 K + 0.002 x  t ) 1 / 3 *) -2580
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection	s T05 / T09 [s]		0.15 K + 0.002 x  t ) 1 / 3 *) -2580
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals	s T05 / T09 [s]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance	s T05 / T09 [s] [°C]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms)
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF	s T05 / T09 [s]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz)
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data	s T05 / T09 [s] [°C]	± ( DIN EN 60068-2-27 DIN EN 60068-2-6	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz)
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF	s T05 / T09 [s] [°C]	± ( DIN EN 60068-2-27 DIN EN 60068-2-6	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts	s T05 / T09 [s] [°C] [Years]	± ( DIN EN 60068-2-27 DIN EN 60068-2-6	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts Probe diameter	IS T05 / T09 [S] [°C] [Years] S) [mm]	± ( DIN EN 60068-2-27 DIN EN 60068-2-6	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404 6
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts Probe diameter Probe length L	s T05 / T09 [s] [°C] [Years] s) [mm] [mm]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404 6 50
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts Probe diameter Probe length L Installation length EL	s T05 / T09 [s] [°C] [Years] s) [mm] [mm]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404 6 50 50 50
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts Probe diameter Probe length L Installation length EL Housing materials	IS T05 / T09 [S] [°C] [°C] [Years] [Years] [mm] [mm] [mm] [mm]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404 6 50 50 50 ess steel 316L / 1.4404
Measuring range Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Materials (wetted parts Probe diameter Probe length L Installation length EL Housing materials Weight	IS T05 / T09 [S] [°C] [°C] [Years] [Years] [mm] [mm] [mm] [mm]	± (	0.15 K + 0.002 x  t ) 1 / 3 *) -2580 IP 68 / IP 69K 50 g (11 ms) 10 g (102000 Hz) 22831 ess steel 316L / 1.4404 6 50 50 50 ess steel 316L / 1.4404

Temperature sensors

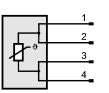
## efectorsod

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TT-050KFBD06- /US/

Temperature sensors





Remarks
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Remarks

Pack quantity

 cULus - Class 2 source required

 \*) according to DIN EN 60751

 The values for accuracy apply to flowing water.

 [piece]
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ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — TT9281 — 09.05.2012