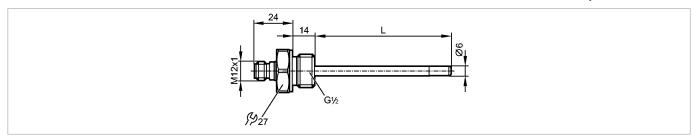
## efector600°

## TM4431

TM-100KFBR12- /US/







Installation length EL

Housing materials

Weight

[mm]

[kg]

C <b>(UL)</b> US Listed					
Product characteristics					
Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V					
Quick disconnect					
Process connection: G 1/2					
Installation length EL: 100 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			
Pressure rating	[bar]		160		
Minimum installation d	lepth [mm]		15		
Electrical data					
Connection to control monitor		TP / TR			
Protection class		III			
Measuring / setting range					
Measuring range		-40150 °C	-40302 °F		
Measuring range  Accuracy / deviation	ıs				
Accuracy / deviation Accuracy	IS		-40302 °F .15 K + 0.002 x  t )		
Accuracy / deviation Accuracy Reaction times			.15 K + 0.002 x  t )		
Accuracy / deviation Accuracy Reaction times Dynamic response	T05 / T09 [s]				
Accuracy / deviation Accuracy Reaction times Dynamic response Environment	T05 / T09 [s]		15 K + 0.002 x  t ) 1 / 3 *)		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature		± (0.	15 K + 0.002 x  t ) 1 / 3 *) -2580		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection	T05 / T09 [s]	± (0.	15 K + 0.002 x  t ) 1 / 3 *)		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals	T05 / T09 [s]	± (0.	15 K + 0.002 x  t ) 1 / 3 *) -2580		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection	T05 / T09 [s]	± (0.	15 K + 0.002 x  t ) 1 / 3 *) -2580		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals	T05 / T09 [s]	± (0.	15 K + 0.002 x  t )  1 / 3 *)  -2580  IP 68 / IP 69K		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance	T05 / T09 [s]	± (0.	15 K + 0.002 x  t )  1 / 3 *)  -2580  IP 68 / IP 69K  50 g (11 ms)		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance	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)		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF	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)		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data	T05 / T09 [s] [°C] [Years]	± (0.  DIN EN 60068-2-2-27:  DIN EN 60068-2-6	15 K + 0.002 x  t )  1 / 3 *)  -2580  IP 68 / IP 69K  50 g (11 ms)  10 g (102000 Hz)  22831		
Accuracy / deviation Accuracy Reaction times Dynamic response Environment Ambient temperature Protection Tests / approvals Shock resistance Vibration resistance MTTF Mechanical data Process connection	T05 / T09 [s] [°C] [Years]	± (0.  DIN EN 60068-2-2-27:  DIN EN 60068-2-6	15 K + 0.002 x  t )  1 / 3 *)  -2580  IP 68 / IP 69K  50 g (11 ms)  10 g (102000 Hz)  22831  G ½		

100

stainless steel 316L / 1.4404

0.13



## TM4431

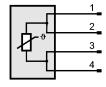
TM-100KFBR12- /US/



**Temperature sensors** 

## Connection M12 connector; gold-plated contacts Wiring





Remarks		
Remarks		cULus - Class 2 source required *) according to DIN EN 60751 The values for accuracy apply to flowing water.
Pack quantity	[piece]	1

ifm efector, inc.  $\bullet$  1100 Atwater Drive  $\bullet$  Malvern  $\bullet$  PA 19355 — We reserve the right to make technical alterations without prior notice. — US — TM4431 — 15.11.2011