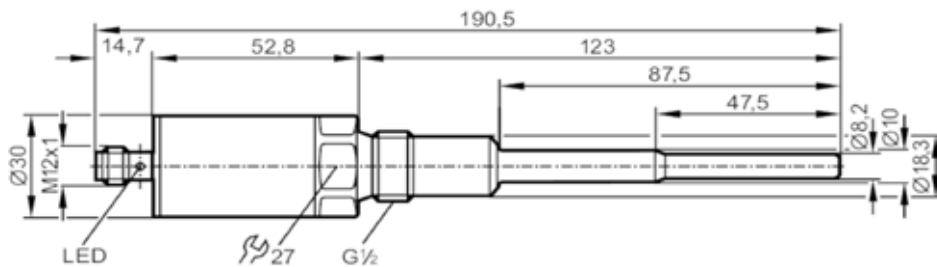



## Temperature Transmitter TA2333



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-58...302	
Communication interface	IO-Link	
Process connection	threaded connection 1/2" NPT external thread	
Installation length EL [mm]	100	
Application		
Special feature	Gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating	< 150; (< 40 min) °C	< 302; (< 40 min) °F
Note on pressure rating	300 bar	30 MPa
Note on pressure rating	sensor	
	When mounted in adapters the specifications of the adapter data sheet apply.	
MAWP for applications according to CRN [bar]	300	
Electrical data		
Operating voltage [V]	18...32 DC; ("supply class 2" to cULus)	
Current consumption [mA]	< 50	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	1	
Inputs / outputs		
Number of inputs and outputs	Number of analogue outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	analogue signal; IO-Link; (configurable)	
Number of analogue outputs	1	
Analogue current output [mA]	4...20	
Max. load [ $\Omega$ ]	250; ((18...19 V); 19...32 V: 300 $\Omega$ )	
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Probe length L [mm]	96,8	
Measuring range	-10...150 °C	14...302 °F
Factory setting	0...300 °F	
Resolution		
Resolution of analogue output [K]	0.04	

Accuracy / deviations		
Precision analogue output [K]	$\pm 0,1$ (60°C / 140°F) / $\pm 0,3$ (0...140°C / 32...284°F)	
Temperature coefficient [% of the span / 10 K]	$< \pm 0,1$ ; (in case of deviation from the reference condition $25 \pm 5$ °C)	
Response times		
Dynamic response T05 / T09 [s]	1 / 3	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Operating conditions		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...100	
Protection	IP 67; IP 68; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-6-2	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [years]	572	
UL approval	UL Approval no.	K002
Mechanical data		
Weight [g]	134.5	
Housing	cylindrical	
Dimensions [mm]	$\varnothing 18.7$ / L = 175.7	
Materials	stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)	stainless steel (316L/1.4404)	
Process connection	threaded connection 1/2" NPT external thread	
Probe diameter [mm]	6	
Installation length EL [mm]	100	
Displays / operating elements		
Display	operating status	1 x LED, green
Remarks		
Remarks	MS = set measuring span	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
Connection	