



Inclination sensor

R360/INCLINOMETER/4-20mA/II



Product characteristics		
Number of measurement axes		1
Angular range	[°]	± 90
Application		
Function principle		static
Application		industrial application; mobile applications
Electrical data		
Operating voltage	[V]	20...30 DC
Current consumption	[mA]	< 35
Protection class		III
Reverse polarity protection		yes
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
Output signal		analogue signal; (see characteristics)
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	400
Overload protection		yes
Measuring/setting range		
Number of measurement axes		1
Angular range	[°]	± 90

EC2082



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Accuracy / deviations		
Repeatability	[°]	0,1
Operating conditions		
Ambient temperature	[°C]	-30...85
Storage temperature	[°C]	-30...85
Storage humidity	[%]	90; (non condensing)
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 61000-6-3 noise emission	class B
Shock resistance	EN 60068-2-29	30 g 6 ms / 24000 shocks
Vibration resistance	DIN EN 60068-2-6	10 g (10...500 Hz) / 10 frequency cycles in 3 axes
	DIN EN 60068-2-64	(10...2000 Hz) / 32 hours in 3 axes
MTTF	[years]	755
Mechanical data		
Weight	[g]	191.8
Dimensions	[mm]	40.5 x 40.5 x 52.2
Materials		housing: PPO
Tightening torque	[Nm]	1.8
Installation position		vertical
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 0.2 m		
Connector: 1 x M12; coding: A		
1	L+	
2	not used	
3	L-	
4	analogue output	

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Diagrams and graphs

measuring and installation direction



vertical installation position / rotation about z-axis