

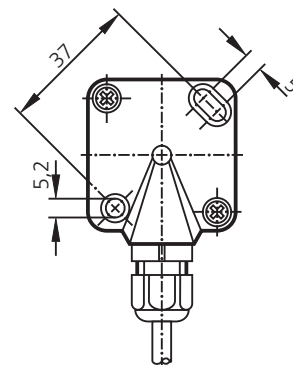
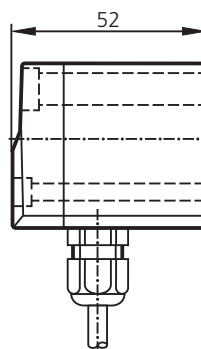
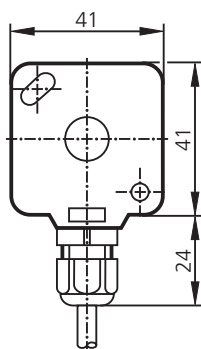
EC2082

Inclination sensor

$\pm 90^\circ$

20...30 V DC

Output 4...20 mA



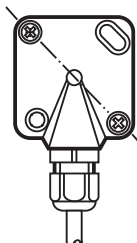
Application

Operating voltage	[V]
Current consumption max.	[mA]
Output	[mA]
Output function	
Load impedance	[Ω]
Short-circuit protection	
Reverse polarity / overload protection	
Angular range (α)	[°]
Zero error	[°]
Repeatability	[°]
Operating temperature	[°C]
Protection	
Housing material	
Connection	
Wiring	
Mounting position	

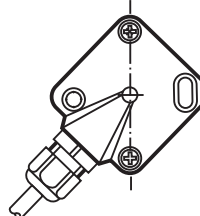
detection of the absolute angle of inclination

20...30 DC
< 35
current output 4...20 DC
$U_a = 12 \text{ mA} + \sin(\alpha) \times 8 \text{ mA}$
200...400 (to signal ground at the output)
to UB and to ground
•
± 90
$< \pm 7$ (the zero error can be reduced by $\pm 4^\circ$ by adjustment of the unit)
0,1
- 30...+85
IP 67 
plastic (nyrol, PPE)
M12 connector; 4-pole; 0.2 m cable
1 = L+ / 2 = nc / 3 = L- / 4 = output

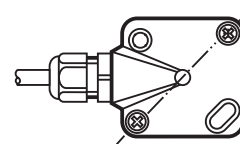
-45°



0°



+45°





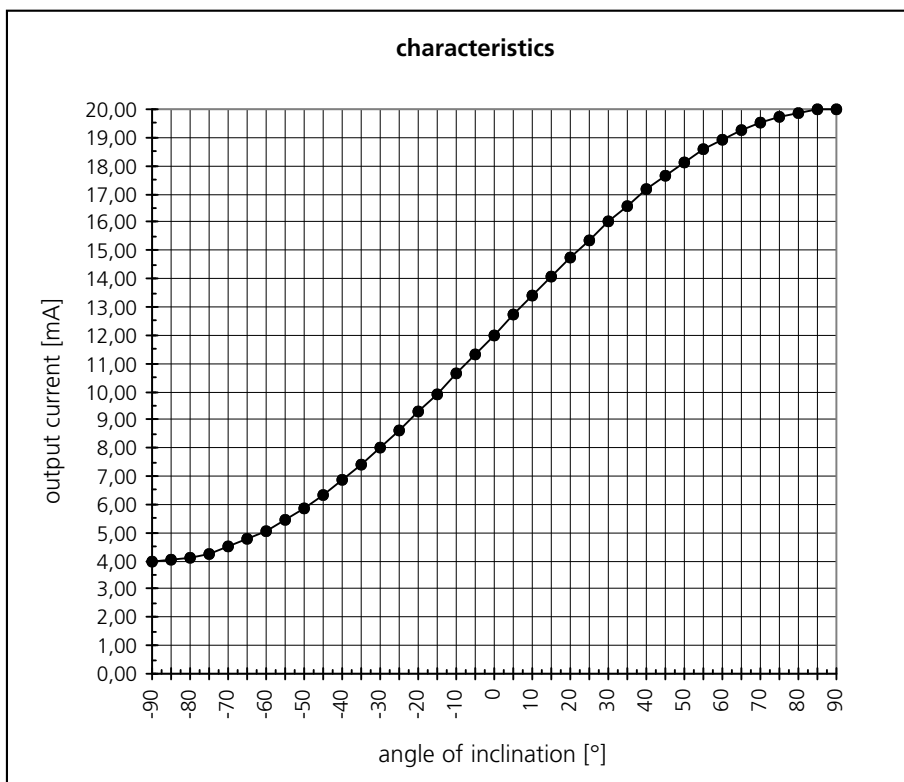
EC2082

Inclination sensor

$\pm 90^\circ$

20...30 V DC

Output 4...20 mA



angle of inclination [°]	output current [mA]
-90	4,00
-85	4,04
-80	4,12
-75	4,27
-70	4,48
-65	4,75
-60	5,07
-55	5,45
-50	5,87
-45	6,34
-40	6,86
-35	7,41
-30	8,00
-25	8,62
-20	9,26
-15	9,93
-10	10,61
-5	11,30
0	12,00
5	12,70
10	13,39
15	14,07
20	14,74
25	15,38
30	16,00
35	16,59
40	17,14
45	17,66
50	18,13
55	18,55
60	18,93
65	19,25
70	19,52
75	19,73
80	19,88
85	19,97
90	20,00