

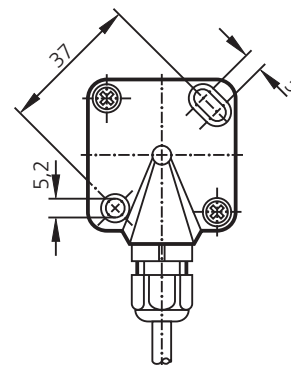
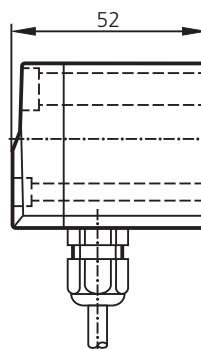
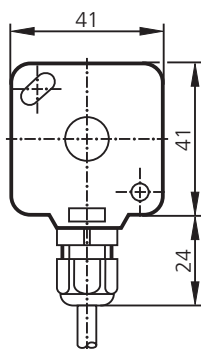
EC2060

Inclination sensor

$\pm 20^\circ$

11 ... 15 V DC

Output 4 ... 20 mA

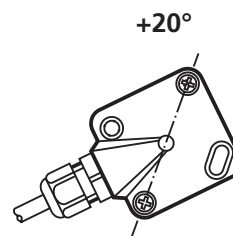
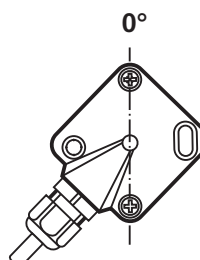
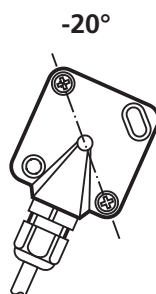


Application

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

11 ... 15 DC
< 35
current output 4 ... 20 DC
$U_a = 12 \text{ mA} + \sin(\alpha) \times 23.36 \text{ mA}$
200 ... 400 (to signal ground at the output)
to UB and to ground
•
± 20
$< \pm 7$ (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





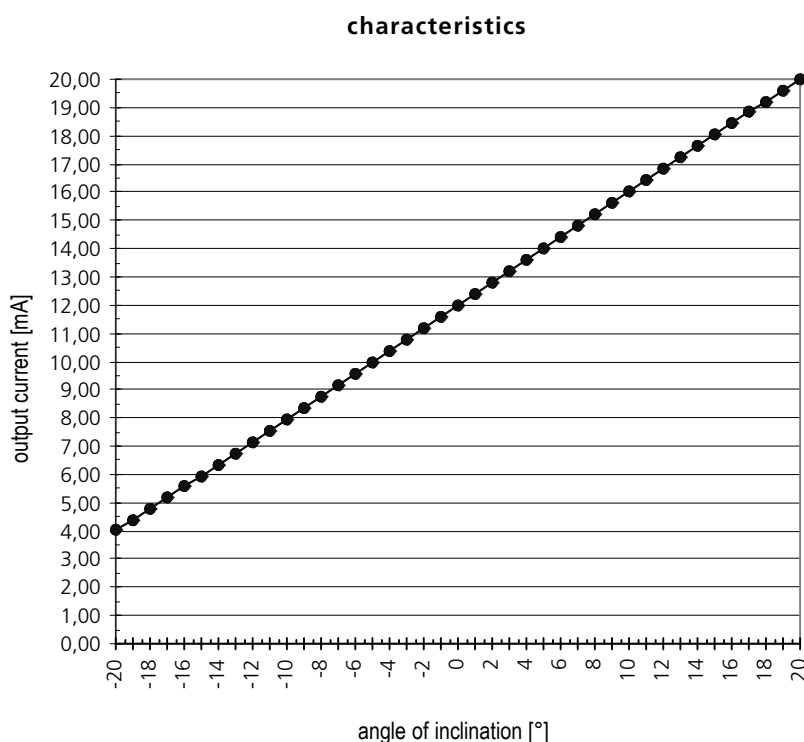
EC2060

Inclination sensor

 $\pm 20^\circ$

11 ... 15 V DC

Output 4 ... 20 mA



angle of inclination [°]	output current [mA]
-20	4,01
-19	4,39
-18	4,78
-17	5,17
-16	5,56
-15	5,95
-14	6,35
-13	6,75
-12	7,14
-11	7,54
-10	7,94
-9	8,35
-8	8,75
-7	9,15
-6	9,56
-5	9,96
-4	10,37
-3	10,78
-2	11,18
-1	11,59
0	12,00
1	12,41
2	12,82
3	13,22
4	13,63
5	14,04
6	14,44
7	14,85
8	15,25
9	15,65
10	16,06
11	16,46
12	16,86
13	17,25
14	17,65
15	18,05
16	18,44
17	18,83
18	19,22
19	19,61
20	19,99