

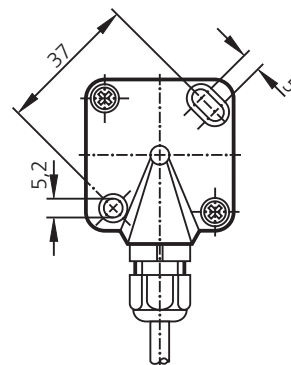
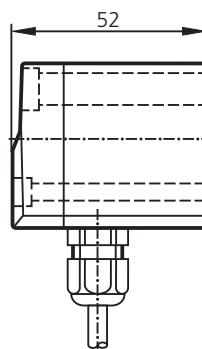
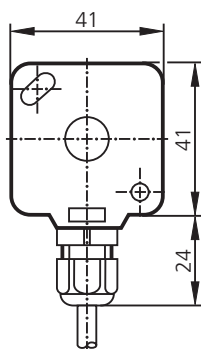
EC2060

Neigungssensor

$\pm 20^\circ$

11...15 V DC

Ausgang 4...20 mA

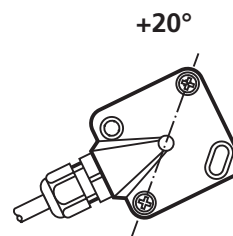
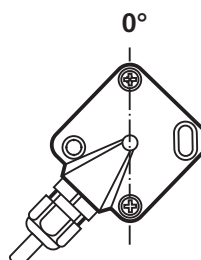
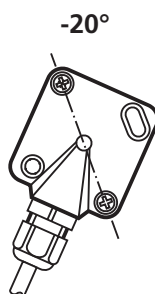


Verwendung

Betriebsspannung	[V]
Stromaufnahme max.	[mA]
Ausgang	[mA]
Ausgangsfunktion	
Lastwiderstand	[Ω]
Kurzschlusschutz	
Verpolungssicher, überlastfest	
Winkelbereich (α)	[°]
Nullpunktfehler	[°]
Wiederholgenauigkeit	[°]
Umgebungstemperatur	[°C]
Schutzart, Schutzklasse	
Gehäusewerkstoff	
Anschluss	
Anschlussbelegung	
Einbaulage	

Erfassung des absoluten Neigungswinkels

11...15 DC
< 35
Stromausgang 4...20
$I_a = 12 \text{ mA} + \sin(\alpha) \times 23,36 \text{ mA}$
200...400 (gegen Signalmasse am Ausgang)
gegen U_a und gegen Masse
•
± 20
< ± 7 (der Nullpunktfehler kann durch Justage des Geräts um $\pm 4^\circ$ kompensiert werden)
0,1
-30...+85
IP 67 
Kunststoff (Nyrol, PPE)
M12-Steckverbinder; 4-polig; 0,2 m Kabel
1 = L+ / 2 = nc / 3 = L- / 4 = Ausgang





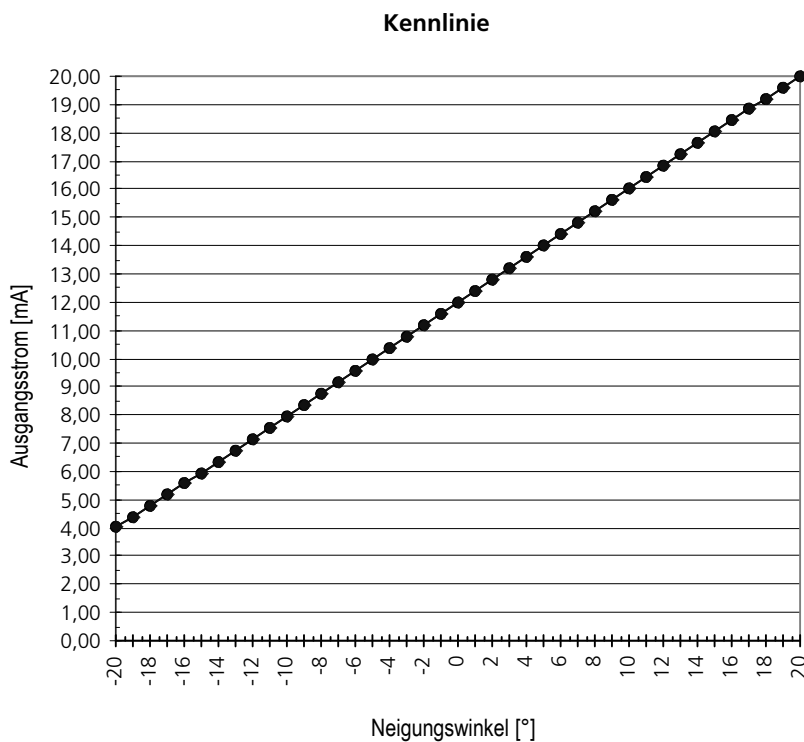
EC2060

Neigungssensor

± 20°

11...15 V DC

Ausgang 4...20 mA



Neigungswinkel [°]	Ausgangsstrom [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

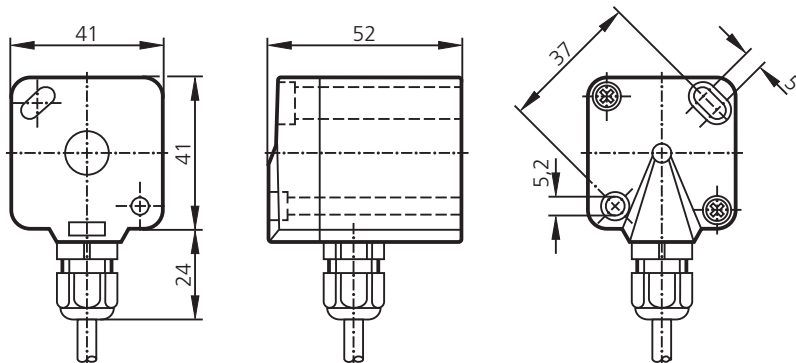
EC2060

Inclination sensor

$\pm 20^\circ$

11...15 V DC

Output 4...20 mA

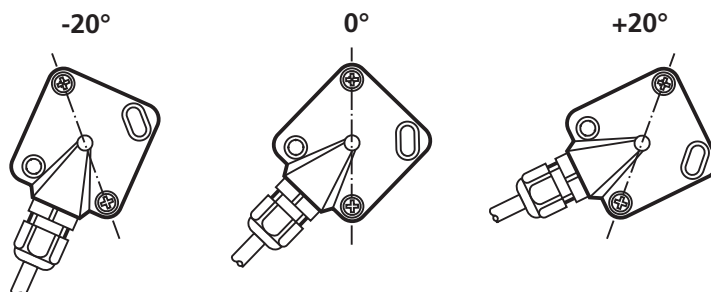


Application

detection of the absolute angle of inclination

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

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





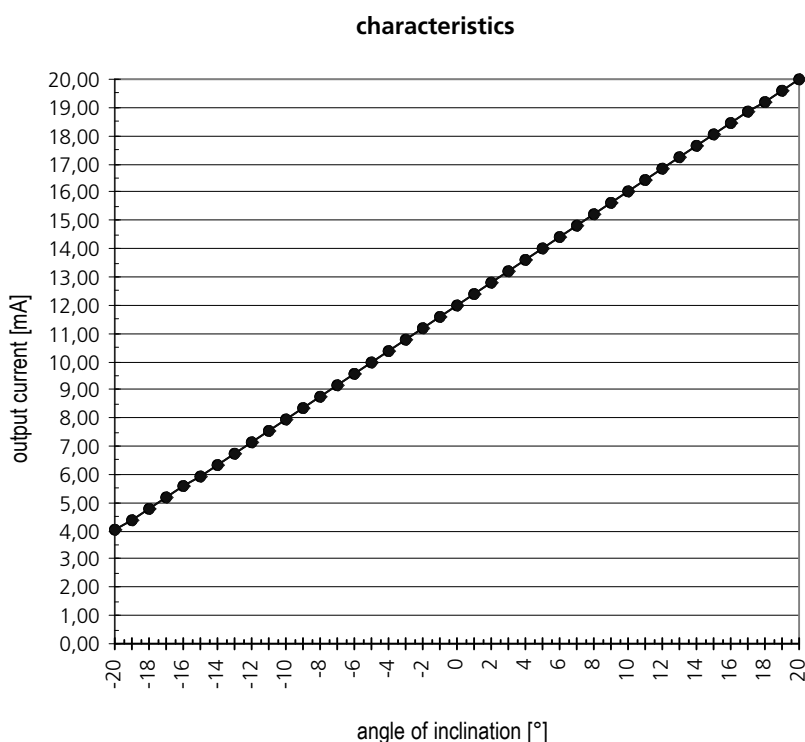
EC2060

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

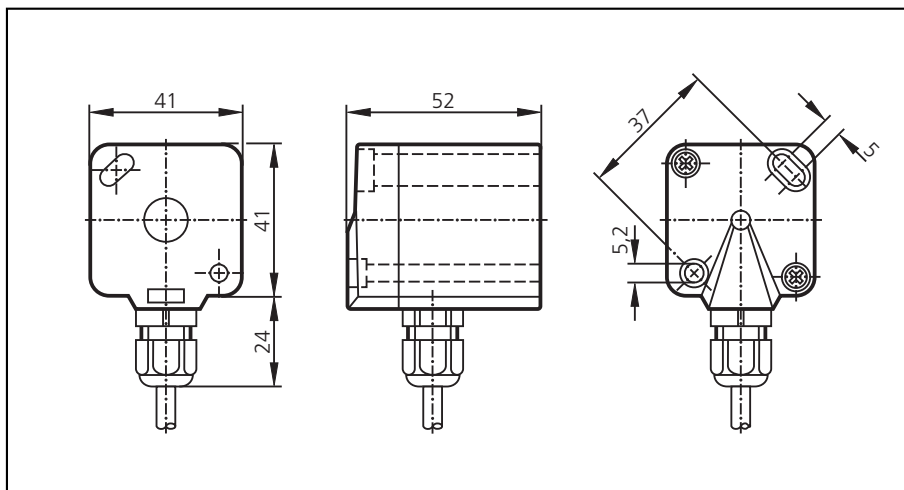
EC2060

Capteur d'inclinaison

$\pm 20^\circ$

11...15 V DC

Sortie 4...20 mA

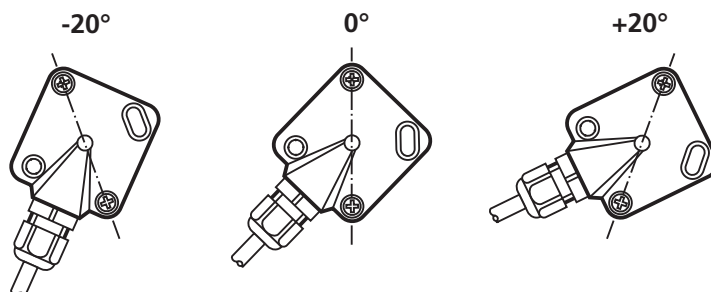


Application

Tension d'alimentation	[V]
Consommation maxi	[mA]
Sortie	[mA]
Fonction sortie	
Résistance de charge	[Ω]
Protégé: courts-circuits	
Protégé: inv. de pol. et surcharges	
Plage d'inclinaison (α)	[°]
Déviat ion résiduelle	[°]
Répétabilité	[°]
Température ambiante	[°C]
Protection	
Boîtier	
Raccordement	
Schéma de branchement	
Position de montage	

détection de l'angle d'inclinaison absolu

11...15 DC
< 35
sortie courant 4...20
$I_a = 12 \text{ mA} + \sin(\alpha) \times 23,36 \text{ mA}$
200...400 (entre la masse et la sortie)
entre UB et la masse
•
± 20
< ± 7 (la déviat ion résiduelle peut être réduite à $\pm 4^\circ$ l'ajustage du boîtier)
0,1
-30...+85
IP 67 
plastique (nyrol, PPE)
embase M12; 4 broches; 0,2 m câble
1 = L+ / 2 = nc / 3 = L- / 4 = sortie





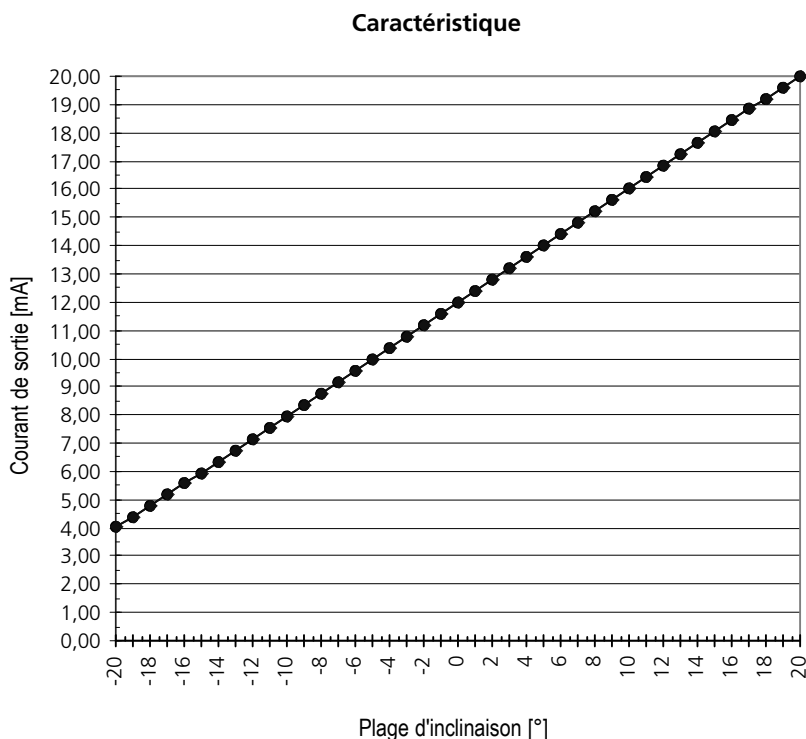
EC2060

Capteur d'inclinaison

$\pm 20^\circ$

11...15 V DC

Sortie 4...20 mA



Plage d'inclinaison [°]	Courant de sortie [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
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-5	9,96
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9	15,65
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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