

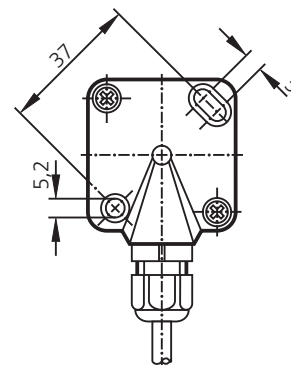
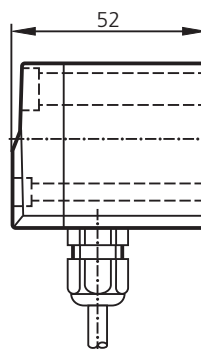
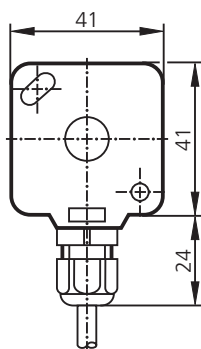
EC2019

Inclination sensor

$\pm 90^\circ$

15 ... 30 V DC

Output 0 ... 10 V

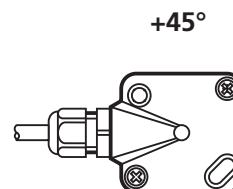
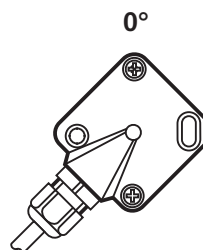
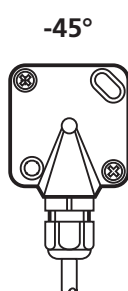


Application

detection of the absolute angle of inclination

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

15 ... 30 DC
< 35
voltage output 0 ... 10 DC
$U_a = 5 \text{ V} + \sin(\alpha) \times 5 \text{ V}$
> 50 to signal ground at the output
to UB and to ground
•
± 90
< ± 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)
PUR cable, 3.5m/3 x 0.5mm ²
BK = L+; BN = L-; BU = output





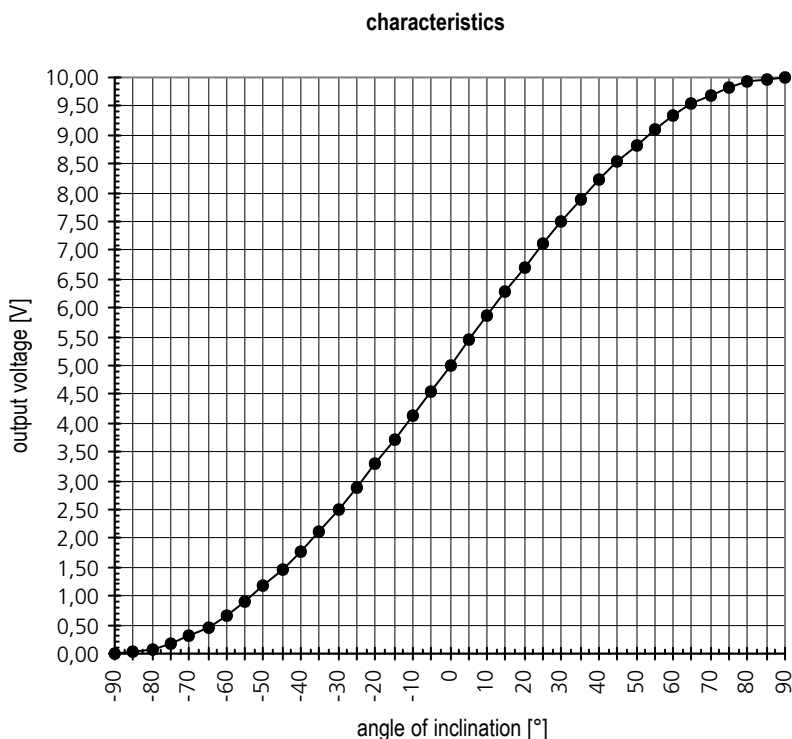
EC2019

Inclination sensor

$\pm 90^\circ$

15 ... 30 V DC

Output 0 ... 10 V



angle of inclination [°]	output voltage [V]
-90	0.00
-85	0.02
-80	0.08
-75	0.17
-70	0.30
-65	0.47
-60	0.67
-55	0.90
-50	1.17
-45	1.46
-40	1.79
-35	2.13
-30	2.50
-25	2.89
-20	3.29
-15	3.71
-10	4.13
-5	4.56
0	5.00
5	5.44
10	5.87
15	6.29
20	6.71
25	7.11
30	7.50
35	7.87
40	8.21
45	8.54
50	8.83
55	9.10
60	9.33
65	9.53
70	9.70
75	9.83
80	9.92
85	9.98
90	10.00