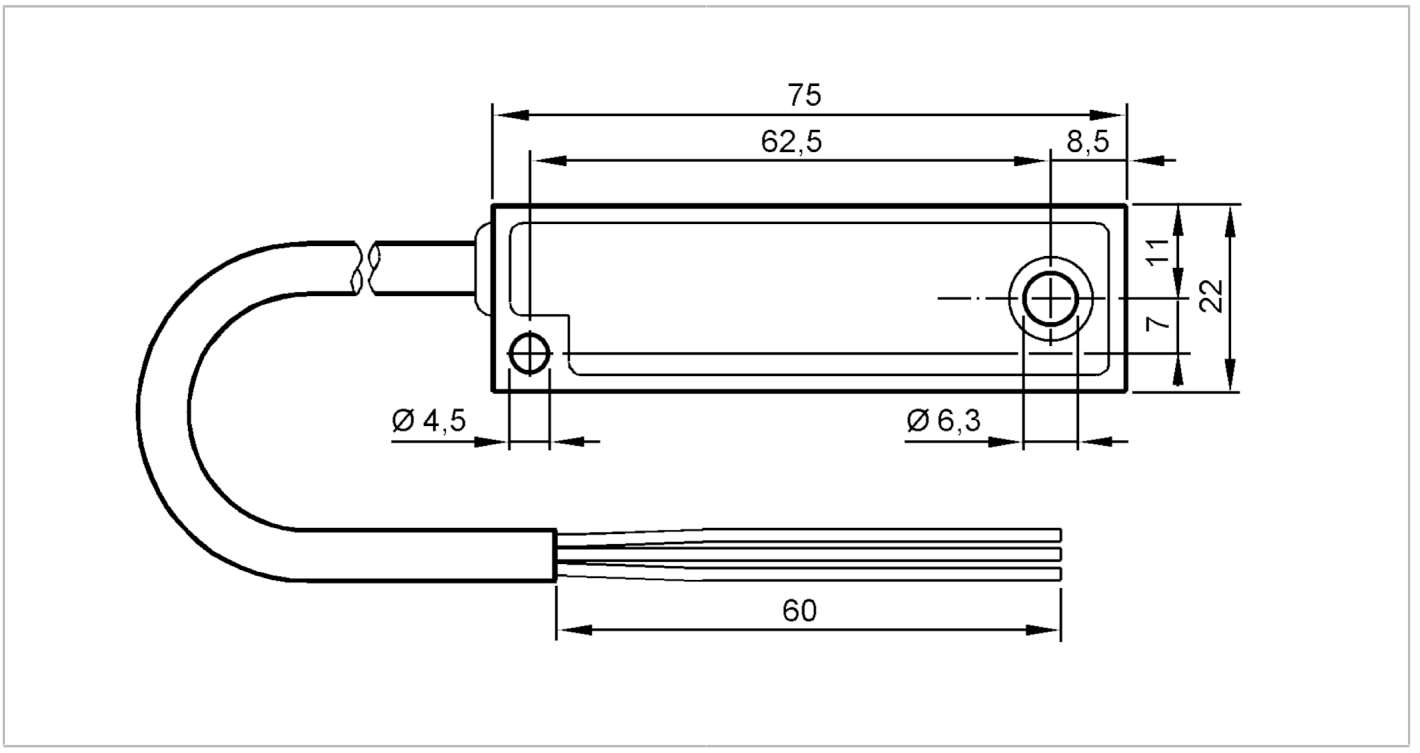
EC2061

Tilt switch

R360/INCLINATION SWITCH



Product characteristics		
Number of measurement axes		1; (Z)
Angular range	[°]	1…-6
Housing		rectangular
Application		
Function principle		static
Principle of operation		noble metal with liquid
Application		Industrial applications; Mobile applications
Electrical data		
Operating voltage	[V]	8...30 DC
Max. current consumption	[mA]	700
Protection class		III
Reverse polarity protection		yes
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1
Outputs		
Output signal		switching signal; (see characteristics)
Number of digital outputs		1
Output function		normally open

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Measuring/setting range			
Note on setpoint SP		Set point (ON): 0° = horizontal (absolute) installation position	
		Reset point (OFF): -2...-5° (counterclockwise movement of the cable outlet)	
		hysteresis SP and RP: +/- 1°	
Number of measurement axes		1; (Z)	
Angular range	[°]	1…-6	
Accuracy / deviations			
Accuracy	[°]	0,2	
Repeatability	[°]	<0,2	
Operating conditions			
Ambient temperature	[°C]	-30...80	
Storage temperature	[°C]	-30...80	
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]	571	
Mechanical data			
Weight	[g]	226.9	
Housing		rectangular	
Type of mounting		Metallbuchse Ø 6,3 mm zur Befestigung des Neigungsschalters Loch Ø 4,5 mm zur Fixierung des Neigungsschalters	
Dimensions	[mm]	75 x 22 x 18	
Mounting orientation		Horizontal	
Remarks			
Pack quantity		1 pcs.	

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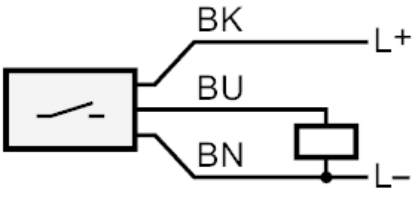
Electrical connection

Cable: 3.1 m, PVC

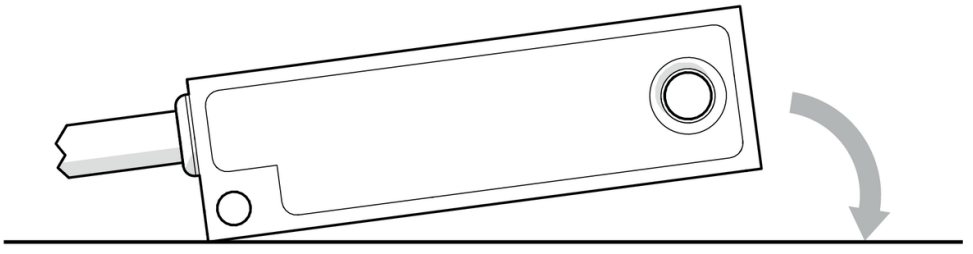
Connection



L+	black
L-	brown
Out	blue

Diagrams and graphs

measuring and installation direction



horizontal installation position / rotation about z-axis