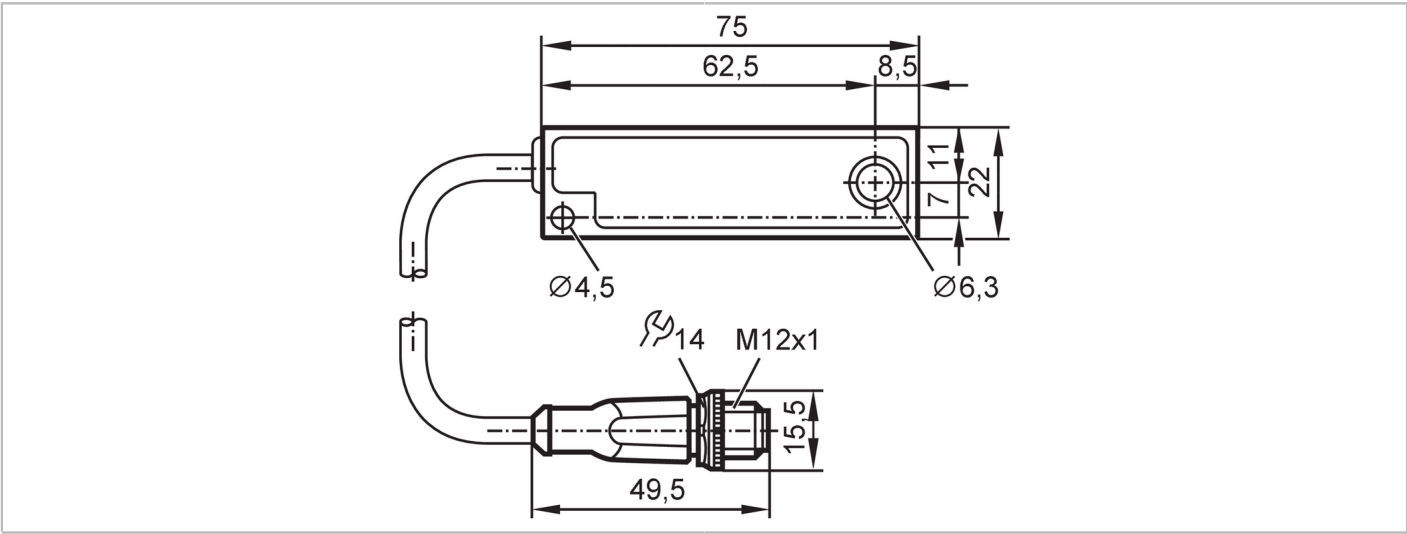




Tilt switch

R360/CUSTOMER-SPECIFIC-UNIT



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
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



Tilt switch

R360/CUSTOMER-SPECIFIC-UNIT

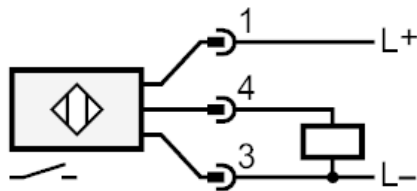
Accuracy / deviations		
Accuracy	[°]	0,2
Repeatability	[°]	<0,2
Operating conditions		
Ambient temperature	[°C]	-30...80
Storage temperature	[°C]	-30...80
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	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]	68.3
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.
Electrical connection		
Cable: 0.25 m, PUR; 4 x 0.34 mm²		
Electrical connection - plug		
Connector: M12; coding: A; Contacts: 4; Tightening torque: 0.6...1.5 Nm		



Tilt switch

R360/CUSTOMER-SPECIFIC-UNIT

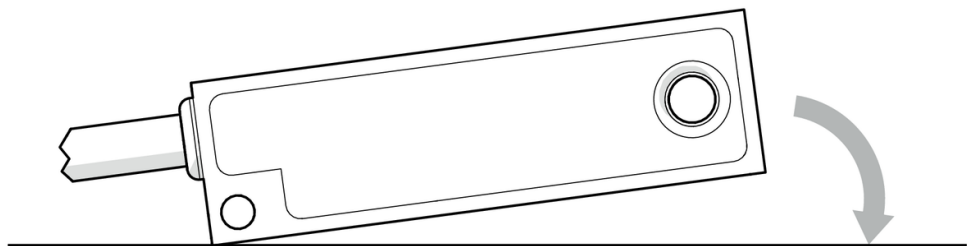
Connection



1	L+
2	not used
3	L-
4	Switching output

Diagrams and graphs

measuring and installation direction



horizontal installation position / rotation about z-axis