BERNSTEIN

Coded Magnetic Switch
Series MAK-52

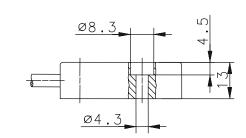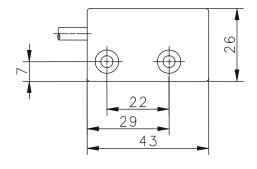| Description **MAK-5236-5 TÜV**	Article number **6490652349**

Wiring diagram

Dimension drawing

Actuating direction / Operating distance

Technical data

Switching function		N.O., N.C. combined
Reference magnet		TK-52-CD/2 TÜV (6402052311)
Assured operating distance - ON	S_{ao}	≥ 3 mm
Assured operating distance - OFF	S_{ar}	≤ 14 mm
Repeat accuracy	R	$\pm 0,1$ mm, under same geometrical conditions at the same temperature
Utilization category		DC-12
Frequency of operating cycles	f	1 Hz

Electrical data

Max. voltage	30 V DC
Max. switching current	0,08 A
Max. switching capacity	0,25 W
Internal series resistors	27 Ω, per channel
Protection class acc. to EN IEC 61558	III (safety extra-low voltage)
Note	Combinations of switching voltage and switching current must not exceed the maximum switching capacity.

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Mechanical data	
Enclosure	PBT, black
Tightening torque of fastening screws	1,25 Nm ± 0,25 Nm
Temperature range	- 5 °C ... + 70 °C (cable not fixed mounted) - 25 °C ... + 70 °C (cable fixed mounted)
Mechanical life	3×10^8 operating cycles
Vibration	10 G (10 - 1200 Hz)
Shock	10 G (11 ms, ½ Sinewave)
Protection type	IP 67 acc. to EN 60529
Termination type	Cable 4 x 0,25 mm² x 5 m ± 5 % ; PVC - Outer jacket, black
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

ID for safety engineering	
B10d	20×10^6 cycles (20 % load) $0,4 \times 10^6$ cycles (nominal load)
Mission time	20 years

Standards	
	DIN EN ISO 13849-1
	EN 60947-5-3
Note	The EN 60947-5-3 standard is only fulfilled by a complete system that consists of a coded magnetic switch with related actuator and suitable safety controller.

EU Conformity	
	acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

Approvals	
	TÜV Nord

Notes	
Contact protection must be provided for inductive and capacitive loads.	

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2021-03-22 and will not be removed in case of changes.
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