BERNSTEIN

Coded Magnetic Switch
Series MAK-52

Description **MAK-5236-CD-M8**	Article number **6490652357**

Wiring diagram

Actuating direction / Operating distance

Dimension drawing
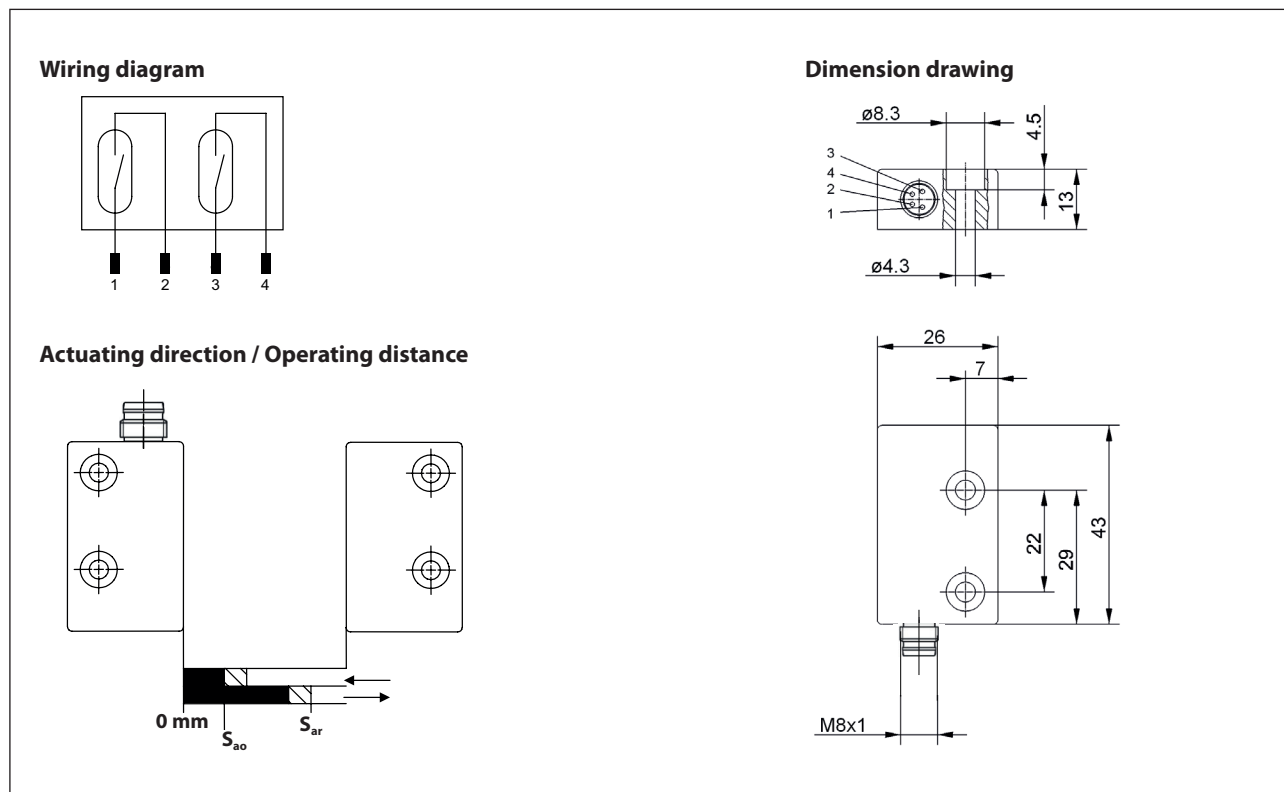
Technical data			
Switching function		2x N.O.	
Reference magnet		TK-52-CD/2 (6402052067)	TK-52-CD/2 SN8 (6402052075)
Assured operating distance - ON	S_{ao}	≥ 3 mm	≥ 6 mm
Assured operating distance - OFF	S_{ar}	≤ 9 mm	≤ 17 mm
Repeat accuracy	R	± 0,1 mm, under same geometrical conditions at the same temperature	
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
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; encapsulated reed contact
Tightening torque of fastening screws	1,25 Nm ± 0,25 Nm
Temperature range	- 5 °C ... + 70 °C
Mechanical life	3×10^8 operating cycles
Vibration	10 G (10 - 1200 Hz)
Shock	10 G (11 ms, ½ Sinewave)
Protection type	IP67 acc. to EN 60529 (only in fully snapped-in position with it's plugs)
Pollution degree	3 acc. to EN 60947-1
Termination type	M8 Plug connector (snap-in and screw cap)
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.

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

Approvals	
	UL Listed, Ind. Cont. Eq. / Class 2 Power source

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

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