⊖ BERNSTEIN

Coded Magnet Switch
Series MAK-42

Description **MAK-4236-CD-0.2-M12**	Article number **6490642418**

Wiring diagram

Dimension drawing

Actuating direction / Operating distance
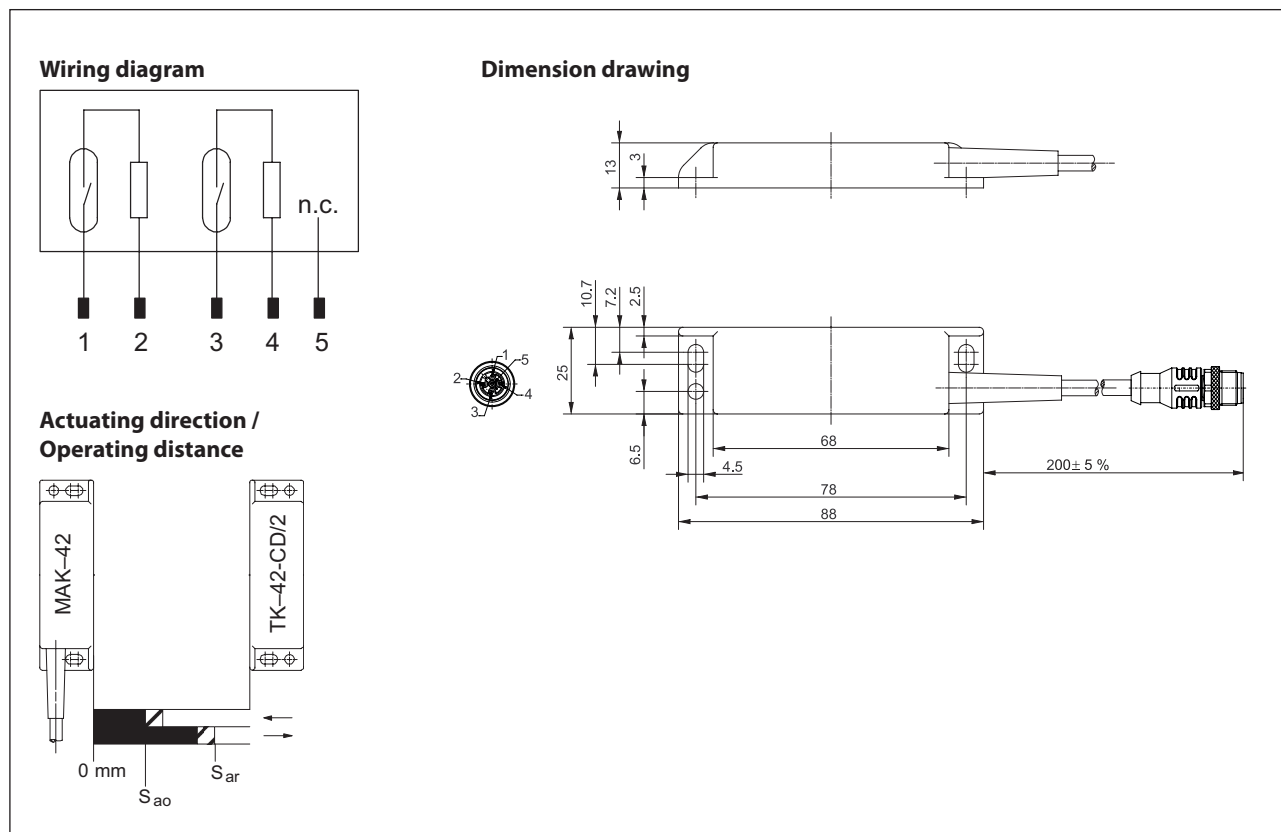
Technical data

Technical data			
Switching function		2 x N.O.	
Reference magnet		TK-42-CD/2 (6402042068)	TK-42-CD/2-SN8 (6402042082)
Assured operating distance - ON	S_a	≥ 4 mm	≥ 8 mm
Assured operating distance - OFF	S_{ar}	≤ 17 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

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	PA6, black (encapsulated reed contact)
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 - 2000 Hz)
Shock	10 G (11 ms, ½ Sinewave)
Protection type	IP 67 acc. to EN 60529 (only in fully locked position with it's plugs)
Degree of pollution	3 acc. to 60947-1
Termination type	Cable 5 x 0,34 mm²; PUR -outer jacket black; connector M12, male, 5-pole
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 consisting of a coded magnetic switch with associated actuator and a suitable safety evaluation.

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

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

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2024-11-12 and will not be removed in case of changes.

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