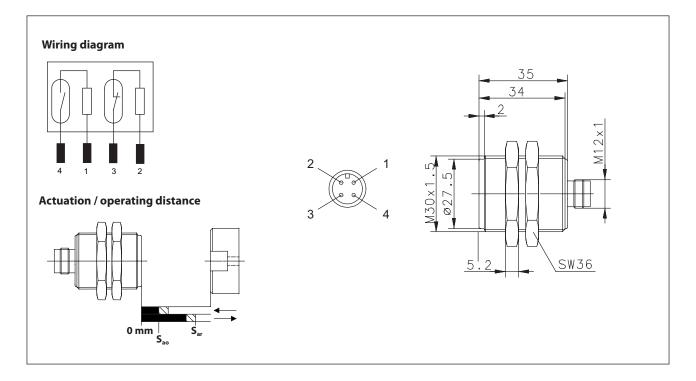


# **Coded Magnetic Switch**

Series MAK-53

### Description MAK-5336-BCD-M12

Article number 6490653326



### Technical data

Switching function		N.O., N.C. combined	
Reference magnet		TK-43-CD/2 (6402043069)	TN-43-CD/2 (6408043070)
Assured operating distance - ON	$S_{ao}$	≥ 5 mm	≥ 5 mm
Assured operating distance - OFF	$S_{ar}$	≤ 14 mm	≤ 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 <sub>DC</sub>
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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## **Technical Data**



Mechanical data	
Enclosure	PA 6, red; encapsulated reed contact
Temperature range	-5 ℃ +70 ℃
Mechanical life	3 x 10 <sup>8</sup> operating cycles
Vibration	10 G (10 - 1200 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)
Pollution degree	3 acc. to EN 60947-1
Termination type	Plug M12 x 1
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

ID for safety engineering	
B10d	20 x 10 <sup>6</sup> cycles (20 % load) 0,4 x 10 <sup>6</sup> 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	<i>9</i> 1
	RU Listed / Class 2 Power source

#### Notes

Contact protection must be provided for inductive and capacitive loads.

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