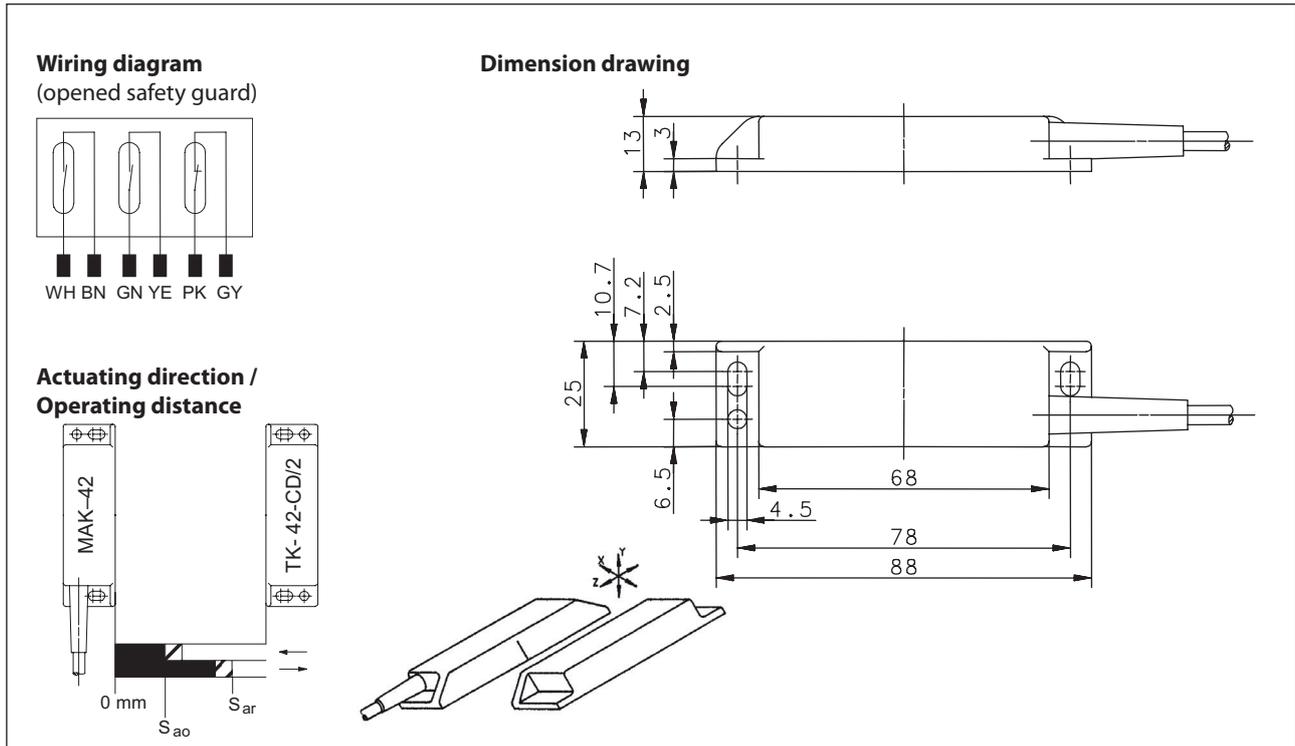


## Coded Magnet Switch Series MAK-42

Description **MAK-4256-3**

Article number **6490642046**



Technical data		
Switching function	2 x N.O. (safety circuit), 1 x N.C. (signal circuit, PK/GY, uncoded)	
Reference magnet	TK-42-CD/2 (6402042053)	TK-42-CD/2-SN8 (6402042061)
Assured operating distance - ON (safety circuit)	$S_a \geq 4 \text{ mm}$	$\geq 6 \text{ mm}$
Assured operating distance - OFF (safety circuit),	$S_{ar} \leq 17 \text{ mm}$	$\leq 17 \text{ mm}$
Admissible axial offset (Y Axis) (Z Axis)	$\pm 2 \text{ mm}$ $\pm 3 \text{ mm}$	
Repeat accuracy	R $\pm 0,1 \text{ mm}$ , under same geometrical conditions at the same temperature	
Utilization category	DC-12	
Frequency of operating cycles	f	1 Hz

Electrical data	
Max. voltage	120 V DC
Max. switching current	0,18 A
Max. switching capacity	5 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.

<b>Mechanical data</b>	
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) - 30 °C ... + 80 °C (cable fixed mounted)
Mechanical life	3 x 10 <sup>8</sup> operating cycles
Vibration	30 G (50 - 2000 Hz)
Shock	50 G (11 ms, ½ Sinewave)
Protection type	IP 67 acc. to EN 60529
Degree of pollution	3 acc. to 60947-1
Termination type	Cable 6 x 0,25 mm <sup>2</sup> x 3 m; PVC -outer jacket, grey
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

<b>ID for safety engineering</b>	
B10d	20 x 10 <sup>6</sup> cycles (20 % load and 24 V DC) 0,4 x 10 <sup>6</sup> cycles (nominal load and 24 V DC)
Mission time	20 years

<b>Standards</b>	
	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.

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

<b>Notes</b>	
	Contact protection must be provided for inductive and capacitive loads.