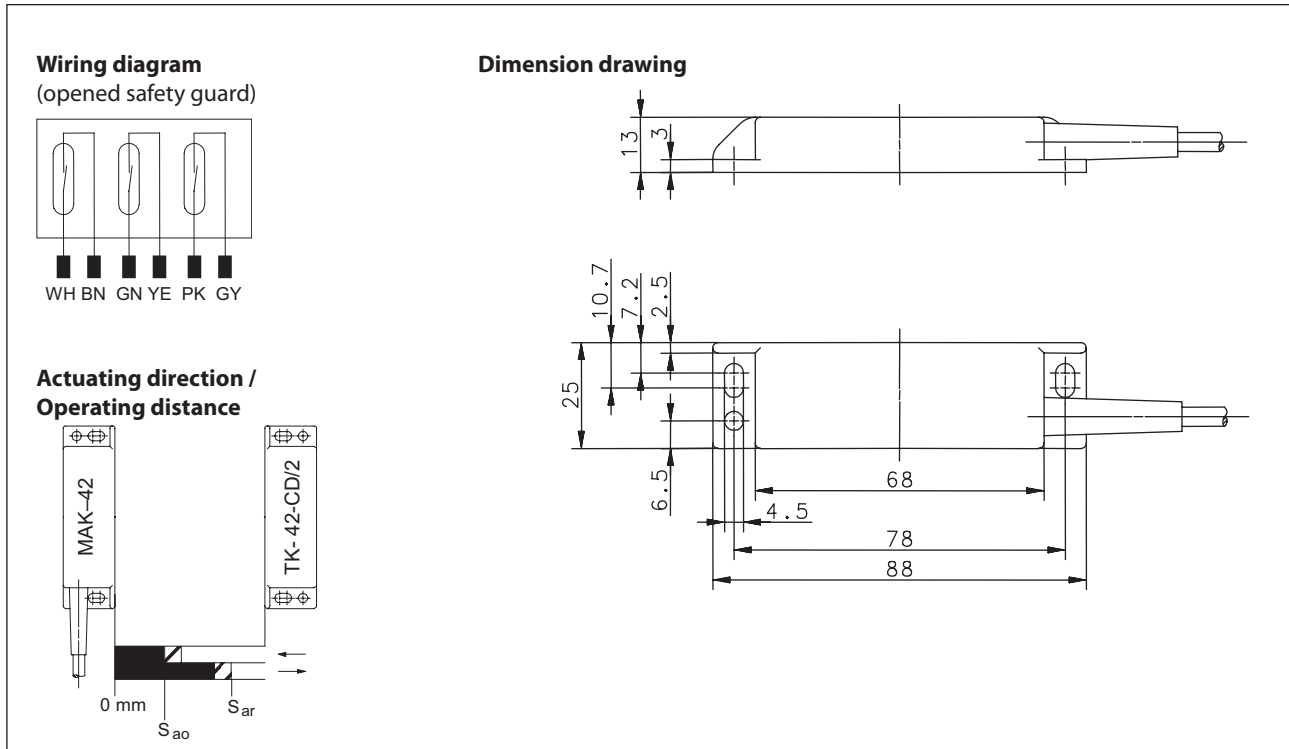


Coded Magnet Switch Series MAK-42

Description **MAK-4256-6**

Article number **6490642047**



Technical data

Switching function	2 x N.O. (safety circuit), 1 x N.O. (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),	$S_{ar} \leq 17 \text{ mm}$	$\leq 17 \text{ mm}$
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.

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) - 30 °C ... + 80 °C (cable fixed mounted)
Mechanical life	3 x 10 ⁸ 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 ² x 6 m ±5 %; PVC -outer jacket, grey
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

ID for safety engineering	
Mission time	20 years
B10d	no load 5 V / 100 mA max. load
	1 x 10 ⁹ cycles 10 x 10 ⁶ cycles 0,5 x 10 ⁶ cycles

Standards	
	EN 60947-5-3
Note	The IEC 60947-5-3 standard is fulfilled by the complete system of coded BERNSTEIN magnetic switches with associated actuator and suitable evaluation device.

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

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