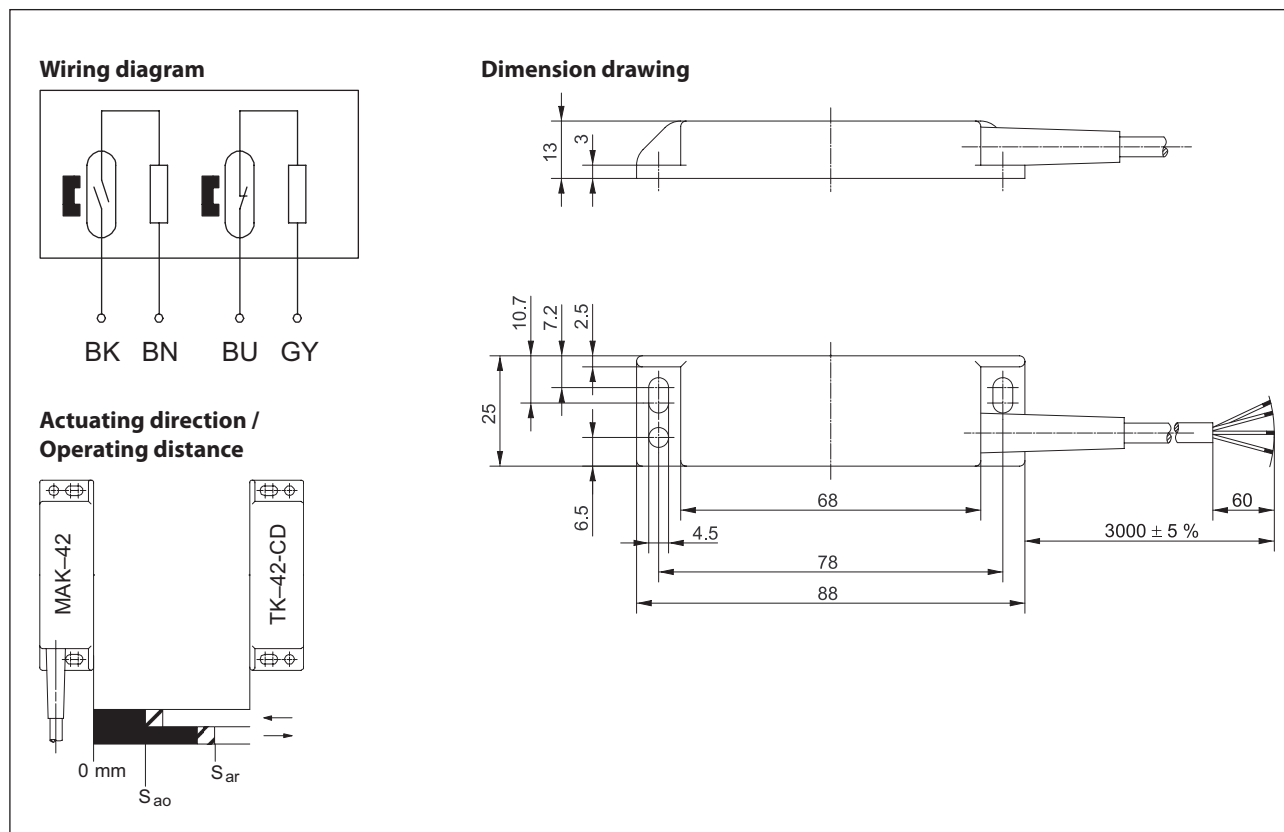


## Coded Magnet Switch Series MAK-42

Description **MAK-4236-3 TÜV**

Article number **6490642315**



### Technical data

Switching function	N.O., N.C. combined	
Reference magnet	TK-42-CD (6402042310)	
Assured operating distance - ON	$S_a$	$\geq 5$ mm
Assured operating distance - OFF	$S_{ar}$	$\leq 14$ 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 DC
Max. switching current	0,08 A
Max. switching capacity	0,25 W
Internal series resistors	27 $\Omega$ , 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.

<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) - 25 °C ... + 70 °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 4 x 0,25 mm <sup>2</sup> ; PVC -outer jacket black
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) 0,4 x 10 <sup>6</sup> cycles (nominal load)
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>Approvals</b>	
	TÜV Nord

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