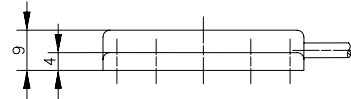
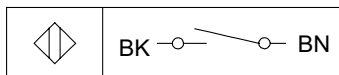


## Magnetic Switch Series MAK-45

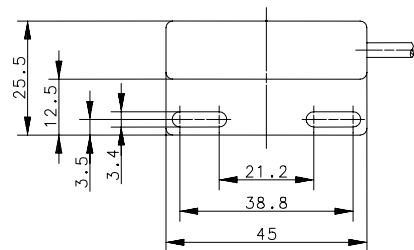
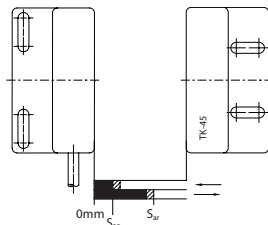
Description **MAK-4512-F-1**

Article number **6311245721**

### Wiring diagram



### Actuating direction / Operating distance



### Technical data

Switching function	N.O.	
Corresponding magnet	TK-45 (6302145077)	
Assured operating distance - ON	$S_{on}$	10 mm
Assured operating distance - OFF	$S_{off}$	22 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	1Hz

### Electrical data


Max. voltage	230 V AC / DC
Max. switching current	1 A
Max. switching capacity	100 VA
Protection class acc. to EN 61140	II (totally insulated)
Note	Combinations of switching voltage and switching current must not exceed the maximum switching capacity.

### Mechanical data

Enclosure	PA 6.6, black
Temperature range	- 10 °C ... + 80 °C (cable not fixed mounted) - 25 °C ... + 80 °C (cable fixed mounted)
Mechanical life	$3 \times 10^8$ operating cycles
Shock	50 g (11 ms / 1/2 Sinewave)
Vibration	20 g (10 - 2000 Hz)
Protection type	IP67 acc. EN 60529
Termination type	Cable 2 x AWG26 x 1 m $\pm 5$ %; PVC -outer jacket black
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

Standards	
	EN 60947-5-1
	EN 62246-1

EU Conformity	
	acc. to directive 2014/35/EU (Low-Voltage-Directive)

Approvals	
	
	UL Listed, Ind. Cont. Eq. / Class 2 Power source
	<b>Note limited electrical data:</b>
	max. switching voltage 30 V AC / 60 V DC
	max. switching current 1 A
	max. switching capacity 60 VA

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