

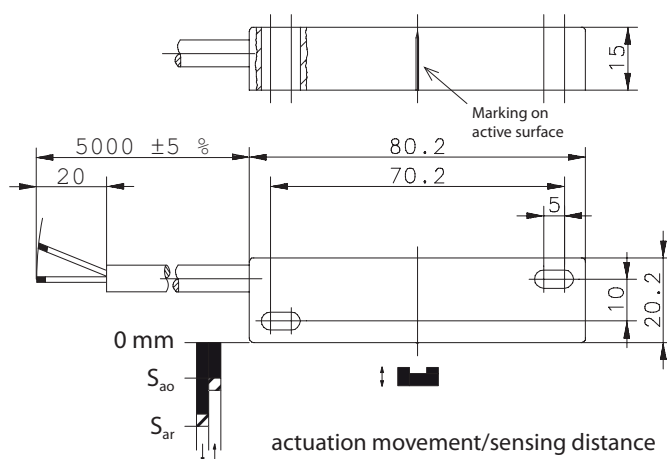
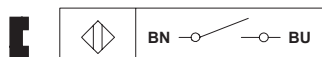
## Magnetic Switch

### Series MA-02

Description **MAK-0212-F-5**

Article number **6414202722**

#### Wiring diagram



#### Technical data

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| Switching function               | N.O.                                                                      |
| Reference magnet                 | TK-21-02 (6303121002)                                                     |
| Assured operating distance - ON  | $S_{ao} \leq 21$ mm                                                       |
| Assured operating distance - OFF | $S_{ar} \geq 50$ mm                                                       |
| Repeat accuracy                  | R $\pm 0,1$ mm, under same geometrical conditions at the same temperature |

#### Electrical data

|                                   |                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| Max. voltage                      | 250 V AC / DC                                                                                           |
| Max. switching current            | 3,0 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         | PA6.6, black                                                                              |
| Temperature range | - 5 °C ... + 70 °C (cable not fixed mounted)<br>- 25 °C ... + 70 °C (cable fixed mounted) |
| Mechanical life   | 3 x 10 <sup>8</sup> operating cycles                                                      |
| Shock Vibration   | 50 g (11 ms, ½ Sinus wave)                                                                |
| Vibration         | 35 g (10 – 1000 Hz)                                                                       |
| Protection type   | IP 67 acc. to EN 60529                                                                    |
| Termination type  | Cable 2 x 0,34 mm <sup>2</sup> ; PVC - Outer jacket, black                                |
| Assembly position | optional<br>(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) |
| Notes                                                                   |                                                      |
| Contact protection must be provided for inductive and capacitive loads. |                                                      |