

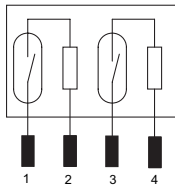
Coded Magnetic Switch

Series MAK-53

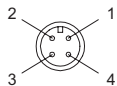
Description **MAK-5326-C-M12**

Article number **6490653401**

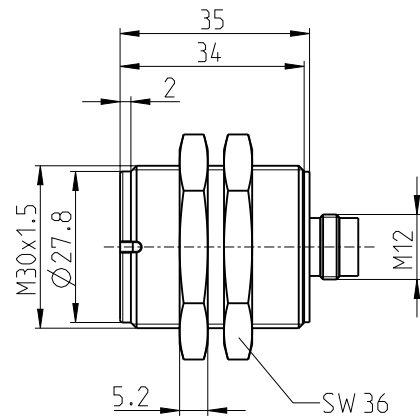
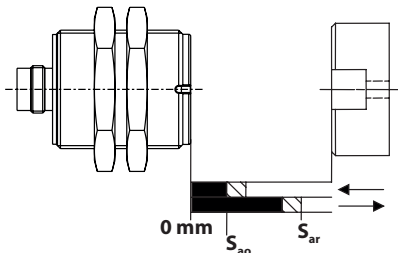
Wiring diagram



Plug



Actuating direction / Operating distance



Technical data

| | |
|----------------------------------|--|
| Switching function | 2 x NO |
| Reference magnet | TK-53-CD/2 (6402053088) |
| Assured operating distance - ON | $S_{ao} \geq 5 \text{ mm}$ |
| Assured operating distance - OFF | $S_{ar} \leq 14 \text{ mm}$ |
| 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 | 30 V DC |
| Max. switching current | 0,08 A |
| Max. switching capacity | 0,25 W |
| Internal series resistors | 27 Ω , 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. |

| Mechanical data | |
|---------------------|---|
| Enclosure | PBT, black (encapsulated reed contact) |
| For attachment | 2x hexagon nut (PA6.6, black) |
| Temperature range | -5 °C ... +70 °C |
| Mechanical life | 3 x 10 ⁸ operating cycles |
| Vibration | 10 G (10 - 2000 Hz) |
| Shock | 100 G (11 ms, ½ Sinewave) |
| Protection type | IP 67 acc. to EN 60529 (only in fully locked position with it's plugs) |
| Degree of pollution | 3 acc. to 60947-1 |
| Termination type | M12 x 1 plug, 4-pin |
| Assembly position | optional (assembly on ferromagnetic material means reduction of switch distance) |

| ID for safety engineering | |
|---------------------------|--|
| B10d | 20 x 10 ⁶ Zyklen (20 % load) 0,4 x 10 ⁶ Zyklen (nominal load) |
| Mission time | 20 years |

| Standards | |
|-----------|---|
| | DIN EN ISO 13849-1 |
| | EN 60947-5-3 |
| Note | The standard EN 60947-5-3 is only complied with by a complete system consisting of coded magnetic switch with associated actuator and a suitable safety safety evaluation system. |

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

| Approvals | |
|-----------|---|
| |  |
| | UL Listed, Ind. Cont. Eq. / Class 2 Power source |

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