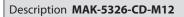
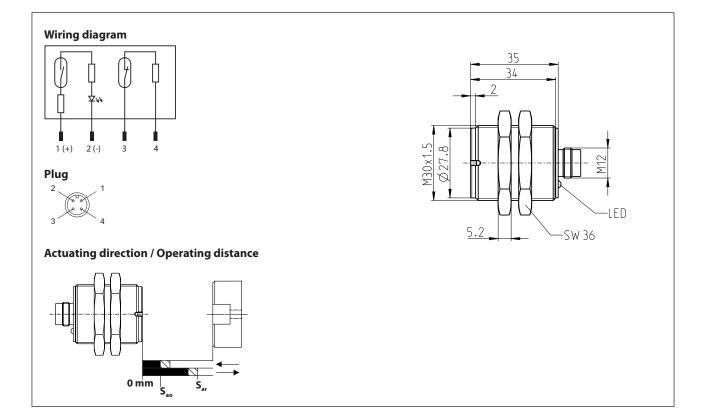


Coded Magnetic Switch

Series MAK-53



Article number 6490653406



| Technical data | | |
|----------------------------------|----------|---|
| Switching function | | 1 x NO, 1 x NC contact |
| Reference magnet | | TK-53-CD/2 (6402053088) |
| Assured operating distance - ON | S_{ao} | ≥ 5 mm |
| Assured operating distance - OFF | S_{ar} | ≤ 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 Ω, per channel (+ LED series resistor) |
| 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. |

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Technical modifications and errors excepted.

The technical datasheet corresponds to the technical state as of 2024-09-11 and will not be removed in case of changes.

Technical Data



| Mechanical data | |
|---------------------------|---|
| Enclosure | PBT, black (encapsulated reed contact) |
| For attachment | 2 x hexagon nut (PA6.6, black) |
| Indication | 1 x LED yellow, actuation status |
| 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 | |
| D10 | 20 x 10 ⁶ Zyklen (20 % load) |
| B10d | 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 | (h) |
| | UL Listed, Ind. Cont. Eq. / Class 2 Power source |
| Notes | |

Contact protection must be provided for inductive and capacitive loads.

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