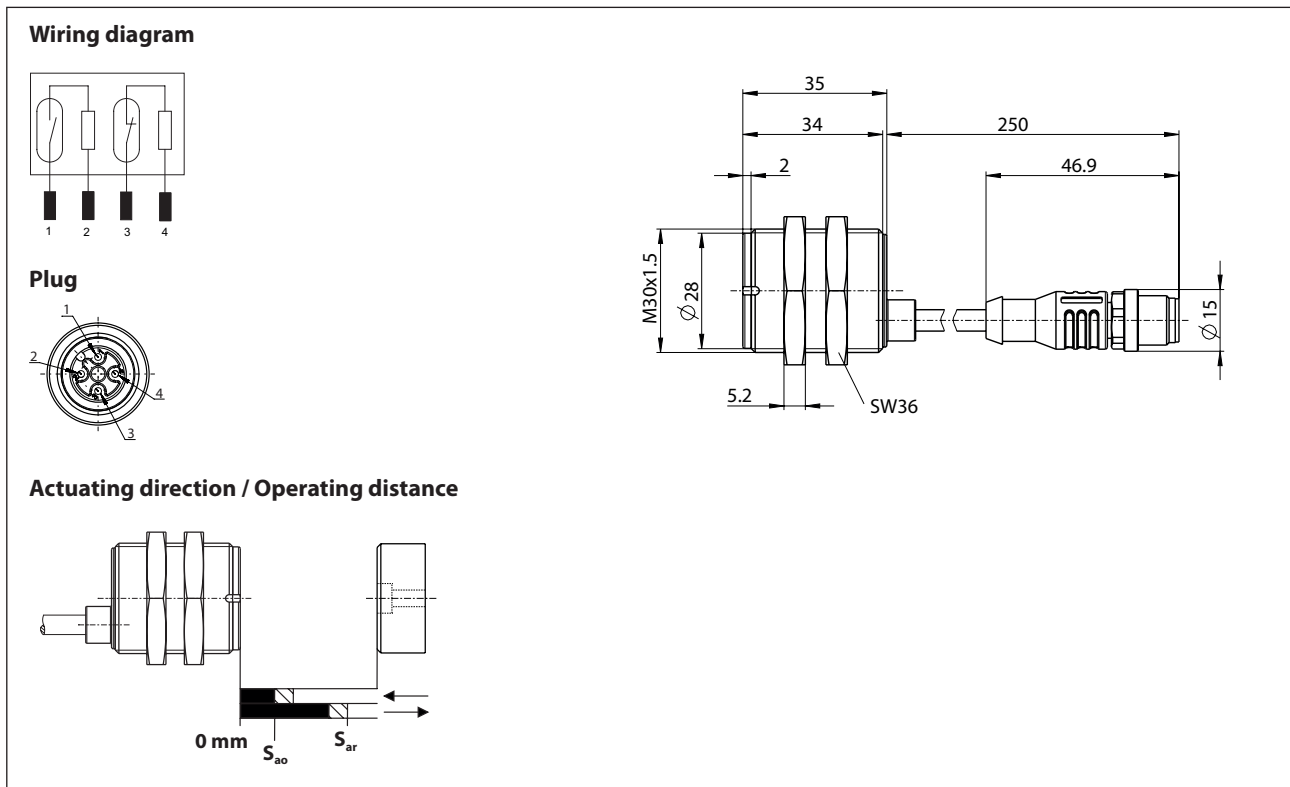


Coded Magnetic Switch Series MAK-53

Description **MAK-5326-CD-0.25-M12**

Article number **6490653375**



Technical data

| | | |
|----------------------------------|-------------------------|---|
| Switching function | N.O., N.C. combined | |
| 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 |
| 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 (PA 6.6, black) |
| Temperature range | - 5 °C ... + 70 °C (cable not fixed mounted) - 25 °C ... + 70 °C (cable fixed mounted) |
| 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 |
| Degree of pollution | 3 acc. to 60947-1 |
| Termination type | Cable 5 x 0,34 mm ² ; PUR - Outer jacket with M12 male connector, 5-pin, A-coding |
| 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. | |