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| **Miniature reed switches** | |
| kontaktrony miniaturowe | Miniature reed switches apply to connect small and medium power.  The high sensitivity ( Pull-in Ampere turns ) of miniature reed switches allows to apply of permanent magnet. For contact's materials of miniature reed switches are used Rutenium.  "DOLAM" S.A. produces three types of miniature reed switches:   * ZM-110/II * ZM-140/II * ZM-109/II |
| Parameters of miniature reed switches are tested in standard coil [CP-14.](http://www.dolam.pl/cewki_en.html) | |
| http://www.dolam.pl/common/czysty.gif | |
| **Dimension of miniature reed switches** | |
| http://www.dolam.pl/common/czysty.gif | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | all dimension in mm | | | | | | Dimension of miniature reed switches | | | | | | |  | Dimension | ZM-110/II | ZM-140/II | ZM-109/II |  | |  | A | max 41.8 | max 44.7 | max 55.0 |  | |  | B | max 10.0 | max 14.2 | max 20.0 |  | |  | C | max 1.8 | max 2.3 | max 2.54 |  | |  | D | max 0.47 | max 0.55 | max 0.65 |  | |  | | | | | | | |
| http://www.dolam.pl/common/czysty.gif | |
| **Technical parameter specification of miniature reed switches** | |
| http://www.dolam.pl/common/czysty.gif | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Technical data** | | **Unit** | **Type of reed switch** | | | | | | **ZM-110/II** | **ZM-140/II** | | **ZM-109/II** | | | Contact form | |  | normally open (type A) | | | | | | Switching power | max | W | 10 | 10 | | 10 | | | Switching current | max | A | 0.5 | | | | | | Switching voltage dc | max | VDC | 150 | 100 | | 180 | | | Pull-in Ampere turns | | AT | 10÷30 | 10÷20 | 20÷35 | 10÷20 | 20÷40 | | Breakdown voltage | min | VDC | 200 | 200 | 250 | 220 | 280 | | Contact resistance | max | mΩ | 150 | 100 | | 150 | | | Operate time | max | ms | 0.5 | 1 | | 1 | | | Release time | max | ms | 0.3 | 0.4 | | 0.3 | | | | | | Capacitance | max | pF | 0.5 | 0.7 | | 0.5 | |  |  |  | | Insulation resistance | min | Ω | 109 | | | | |  |  |  | | Resonant frequency | min | Hz | 5000 | 4000 | | 2600 | |  |  |  | | http://www.dolam.pl/common/czysty.gif | | | | | | | |  |  |  | | |