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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
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| 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 |
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|  | 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 |  |
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| http://www.dolam.pl/common/czysty.gif |
| **Technical parameter specification of miniature reed switches** |
| http://www.dolam.pl/common/czysty.gif |
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| **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 |  |  |  |

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