# Rectangle magnetic reed sensor
## RMS68-PR

### Rectangle magnetic reed sensor
**Product Characteristics**
- Can be tested in a non−contact manner, so there will be no wear or damage to the tested object
- Adopting contactless output mode, thus extending service life
- Unlike light detection, it is suitable for use in environments such as water and oil
- Almost unaffected by stains, oil, water, etc. of the tested object during testing
- Compared to contact switches, it can achieve high−speed response
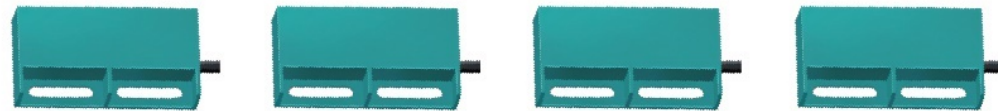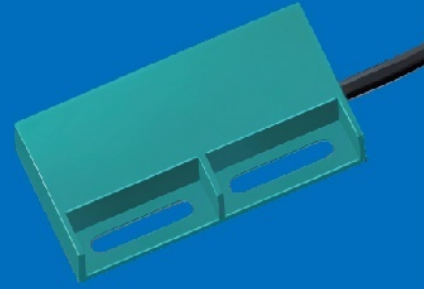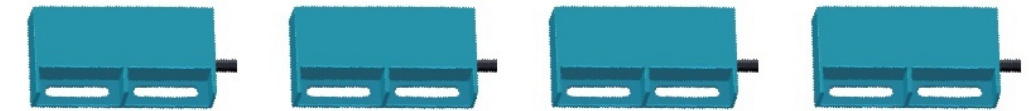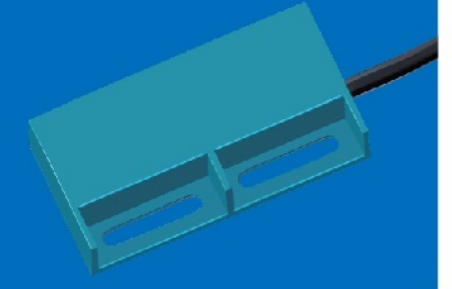
**Product Function**
- Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;
- Adopting high−strength induction magnets to maximize the system's anti−interference ability;
- Electrical performance meets the "IEC" standard;
- Accurate positioning, small size, and convenient installation and debugging.

| Model | RMS68-PR-A80 | RMS68-PR-A60 | RMS68-PR-A10 | RMS68-PR-A20 |
|---|---|---|---|---|
| Standards | IEC/EN 60947−5−2 | IEC/EN 60947−5−2 | IEC/EN 60947−5−2 | IEC/EN 60947−5−2 |
| Enclosure | Glass−fibre PA | Glass−fibre PA | Glass−fibre PA | Glass−fibre PA |
| Operating principle | Magnetic | Magnetic | Magnetic | Magnetic |
| Contact variants | NO | NO | NO | NO |
| Switching voltage | Max.250VAC | Max.140VAC | Max.230VAC | Max.150VAC |
| Switching current | Max.1.3A | Max.1A | Max.0.5A | Max.1A |
| Switching capacity | Max.80VA/W | Max.60VA/W | Max.10VA/W | Max.20VA/W |
| Dielectric strength | 800V | 250V | 400V | 200V |
| Switching speed | Max.3.5ms | Max.4ms | Max.2ms | Max.2ms |
| Switching frequency | <500Hz | <500Hz | <500Hz | <500Hz |
| Switching time"closing" | 0.2ms | 0.15ms | 0.1ms | 0.02ms |
| Switching time"opening" | 3.5ms | 4ms | 2ms | 2ms |
| Bounce time | 0.5ms | 0.5ms | 0.5ms | 0.6ms |
| Ambient temperature | −20~+60℃ | −20~+60℃ | −20~+60℃ | −20~+60℃ |
| Mechanical life | Min.$10^8$ | Min.$10^8$ | Min.$10^8$ | Min.$10^8$ |
| Electrical life | 1million−1 billion | 1million−1 billion | 1million−1 billion | 1million−1 billion |
| Repeatability | ±0.25mm | ±0.25mm | ±0.25mm | ±0.25mm |
| Protection class | IP67−EN60529 | IP67−EN60529 | IP67−EN60529 | IP67−EN60529 |
| Dimensions | 68×35×15mm | 68×35×15mm | 68×35×15mm | 68×35×15mm |
| Cable length | 2m(standard) | 2m(standard) | 2m(standard) | 2m(standard) |

| Model | RMS68-PR-C80 | RMS68-PR-C60 | RMS68-PR-C10 | RMS68-PR-B80 | RMS68-PR-B60 |
|---|---|---|---|---|---|
| Standards | IEC/EN60947−5−2 | IEC/EN60947−5−2 | IEC/EN60947−5−2 | IEC/EN60947−5−2 | IEC/EN60947−5−2 |
| Enclosure | Glass−fibre PA | Glass−fibre PA | Glass−fibre PA | Glass−fibre PA | Glass−fibre PA |
| Operating principle | Magnetic | Magnetic | Magnetic | Magnetic | Magnetic |
| Contact variants | NC | NC | NC | BI | BI |
| Switching voltage | Max.230VAC | Max.140VAC | Max.230VAC | Max.230VAC | Max.140VAC |
| Switching current | Max.1A | Max.1A | Max.0.5A | Max.1A | Max.1A |
| Switching capacity | Max.80VA/W | Max.60VA/W | Max.10VA/W | Max.80VA/W | Max.60VA/W |
| Dielectric strength | 400V | 250V | 400V | 400V | 250V |
| Switching speed | Max.4ms | Max.4ms | Max.2ms | Max.4ms | Max.4ms |
| Switching frequency | <500Hz | <500Hz | <500Hz | <500Hz | <500Hz |
| Switching time"closing" | 0.1ms | 0.15ms | 0.1ms | 0.1ms | 0.15ms |
| Switching time"opening" | 4ms | 4ms | 2ms | 4ms | 4ms |
| Bounce time | 0.5ms | 0.5ms | 0.5ms | 0.5ms | 0.5ms |
| Ambient temperature | −20~+60℃ | −20~+60℃ | −20~+60℃ | −20~+60℃ | −20~+60℃ |
| Mechanical life | Min.$10^8$ | Min.$10^8$ | Min.$10^8$ | Min.$10^8$ | Min.$10^8$ |
| Electrical life | 1million−1 billion | 1million−1 billion | 1million−1 billion | 1million−1 billion | 1million−1 billion |
| Repeatability | ±0.25mm | ±0.25mm | ±0.25mm | ±0.25mm | ±0.25mm |
| Protection class | IP67−EN60529 | IP67−EN60529 | IP67−EN60529 | IP67−EN60529 | IP67−EN60529 |
| Dimensions | 68×35×15mm | 68×35×15mm | 68×35×15mm | 68×35×15mm | 68×35×15mm |
| Cable length | 2m(standard) | 2m(standard) | 2m(standard) | 2m(standard) | 2m(standard) |