

## CHERRY MX SILENT RGB BLACK



Models may vary from the image shown

### Silent CHERRY MX-RGB keyswitch with patented (patent pending) noise reduction

Uncompromising. CHERRY MX SILENT RGB keyswitch. The CHERRY original in its quietest and most illuminant form. Patented (patent pending) noise reduction combined with 16.7 million colors and worldwide unique Gold Crosspoint technology.

#### Key Benefits

- RGB black switch: Without pressure point, linear actuation - easy switching function with a defined force of approx. 60 cN without contact feedback
- Noise optimized MX-RGB keyswitch version optimized for use with SMD LEDs (RGB or single color)
- The only solution from a single source: patented (patent pending) noise reduction with integrated 2-component stem and worldwide unique Gold Crosspoint contact technology
- Minimizes bottom-out and top out noise.
- » Even illumination with optimized, transparent casing and scattering surface including lens.
- Option to use all 16.7 million RGB colors in high luminosity (scope of supply does not include LED)
- SMD LEDs directly mounted on the circuit board for cost-efficient, fully automated production
- Noise reduction takes place in the glass-fiber reinforced base, regardless of 3rd party solutions on the keyswitch.
- Precision "Made in Germany" with a short bounce time of < 5 ms
- Self-cleaning contacts, resistant to dust and dirt
- Over 50 million strokes per keyswitch without compromising on quality.
- Long-lasting safe switching performance in the renowned "Original CHERRY quality" tried-and-tested a billion times over.

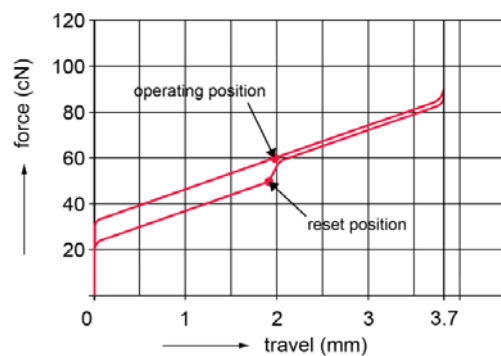
#### Technical Data:

##### Housing Color:

- Transparent cover, plain base

##### Keymodule:

- Switch Type: MX
- Protection Class: IP40
- Operation Characteristics: BLACK SWITCH SILENT Linear (60 cN)



- Over 50 million strokes per keyswitch without compromising
- Fastening: Product dependent, see table "Models"
- Switching Voltage: 12 V AC/DC max.
- Switching Current: 10 mA AC/DC max.
- Dielectric Strength: 500 V / 50Hz
- Durability: > 50 million actuations
- Contact Configuration: Single-pole contact
- Actuator Travel: 3.7 -0.4 mm
- Pretravel: 1.9 ± 0.6 mm
- Initial Force: 30 cN min.
- Actuation Force: 60 ± 20 cN
- Bounce Time: < 5 ms (during actuation with 0,4 m/s)
- Standard Lead Spacing: 19.05 mm (16 mm min.)
- Lighting: SMD LED can be mounted directly on the circuit board (not included in the module), opening for SMD LED in the base.
- Decoupling Diode: no
- Wire Jumper: no
- Insulation Materials: Thermoplastics (min. UL 94 HB)
- Spring: Stainless steel
- Contacts: High-quality gold alloy
- Storage Temperature: -40°C to 70°C
- Operating Temperature: -10°C to 70°C
- Humidity: Storage: average <50% max. 3 months / 75% max. 15 days, operation: 5% to 95% without condensation

#### Warranty:

- 2 Years



**Models:**

|   | <b>Product Name</b>        | <b>Part Number</b> | <b>Fastening</b>                         |
|---|----------------------------|--------------------|--|
| 1 | CHERRY MX SILENT RGB BLACK | MX3A-11NA          | Snap fastening in frame                  |
| 2 | CHERRY MX SILENT RGB BLACK | MX3A-11NB          | Fixing pins in the printed circuit board |

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The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice. Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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