

## CHERRY MX1A-ExxA/B



Models may vary from the image shown

### High-precision MX keyswitch specially engineered for RGB Multicolor Illumination

Blue switch: Click pressure point, key stroke with tactile and audible contact feedback.

A shining example: The new CHERRY MX RGB switch. Globally pioneering technology for precision mechanical keyswitches. Optimised for use with SMD LEDs, which make the keyboard shine in all RGB colours with high luminosity. Every key can be illuminated individually in a different color. Engineered and Made in Germany.

### Key benefits

- Blue switch: Click pressure point, key stroke with tactile and audible contact feedback
- MX switch variant optimised for use with SMD LEDs (RGB or single colour)
- More consistent lighting throughout the keycap due to optimised, transparent casing and scattering surface including lens.
- Option to use all 16.7 million RGB colours in high luminosity (scope of supply does not include LED)
- SMD LEDs directly mounted on the circuit board for cost-efficient, fully automated production
- High-precision mechanical keyswitch based on the MX standard
- World exclusive CHERRY Gold Crosspoint technology
- Short bounce time for high switching frequency (such as for fast typing)
- Self-cleaning contacts, resistant to dust and dirt
- Over 50 million keystrokes / contact switches per module

- with no loss of quality
- Engineered and Made in Germany.

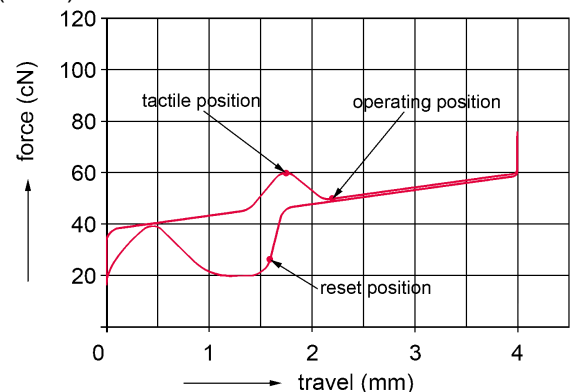
### Technical Data:

#### Housing colour:

Transparent cover, plain base

#### Keymodule:

- Switch type: MX
- Protection class: IP40
- Operation characteristics: BLUE SWITCH Click pressure point (60cN)



- Fastening: Product dependant, 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: 4 - 0.5 mm
- Pretravel:  $2.2 \pm 0.6$  mm
- Initial force: 25 cN min.
- Actuation force:  $50 \pm 15$  cN
- Pressure point force:  $60 \pm 15$  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: 5°C to 40°C
- Operating Temperature: -40°C to 70°C
- Humidity: Storage: average <50% max. 3 months / 75% max. 15 days, operation: 5% to 95% without condensation

*For detailed information and the layout of the details described above, please do not hesitate to ask for our technical specifications and drawing.*

**Warranty:**

2 years

Errors, technical changes and delivery possibilities excepted.  
Technical information refers only to the specifications of the  
products. Features may differ from the information provided.

**Models:**

	<b>Product name</b>	<b>Order number</b>	<b>Fastening</b>
1	CHERRY MX RGB Keyswitch	MX1A-E1NA	Snap fastening in frame
2	CHERRY MX RGB Keyswitch	MX1A-E1NB	Fixing pins in the printed circuit board

## CHERRY MX1A-Exxx



*Models may vary from the image shown*

### The Original: Key module with CHERRY Gold Crosspoint technology

Blue switch: Click pressure point, key stroke with tactile and audible contact feedback.

Original CHERRY MX is the world's leading precision technology for mechanical key modules. The CHERRY Gold Crosspoint contact concept and the unprecedented production quality "made in Germany" are unique. MX inside ensures unrivalled quality, precision and reliability.

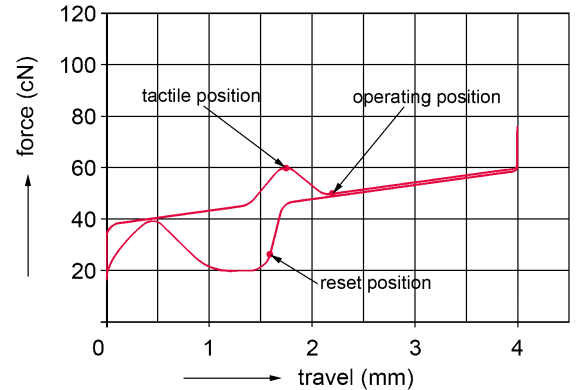
### Key benefits

- Blue switch: Click pressure point, key stroke with tactile and audible contact feedback
- Mechanical high-precision key module
- In use worldwide for Original CHERRY keyboards and in keyboards of demanding input device manufacturers
- Safe and long-lasting reliability of switching performance and characteristics
- Short bounce time for high switching frequency (such as for fast typing)
- Self-cleaning contacts, resistant to dust and dirt
- Over 50 million keystrokes / contact switches per module with no loss of quality
- Proven a billion times over and continuously developed
- World exclusive CHERRY Gold Crosspoint technology

### Technical Data:

#### Keymodule:

- Switch type: MX
- Protection class: IP40
- Operation characteristics: BLUE SWITCH Click pressure point (60cN)



- Fastening: Product dependant, 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: 4 - 0.5 mm
- Pretravel:  $2.2 \pm 0.6$  mm
- Initial force: 25 cN min.
- Actuation force:  $50 \pm 15$  cN
- Pressure point force:  $60 \pm 15$  cN
- Bounce time: < 5 ms (during actuation with 0,4 m/s)
- Standard lead spacing: 19.05 mm (16 mm min.)
- Lighting: Product dependant, see table "Models"
- Decoupling diode: Product dependant, see table "Models"
- Wire jumper: Product dependant, see table "Models"
- Insulation materials: Thermoplastics (min.UL 94 HB)
- Spring: Stainless steel
- Contacts: High-quality gold alloy
- Storage Temperature: 5°C to 40°C
- Operating Temperature: -40°C to 70°C
- Humidity: Storage: average <50% max. 3 months / 75% max. 15 days, operation: 5% to 95% without condensation

*For detailed information and the layout of the details described above, please do not hesitate to ask for our technical specifications and drawing.*

#### Warranty:

2 years

Errors, technical changes and delivery possibilities excepted.  
Technical information refers only to the specifications of the  
products. Features may differ from the information provided.

## Models:

	Product name	Order number	EAN code	Fastening	Lighting	Decoupling diode	Wire jumper
1	CHERRY MX1A-Exxx	MX1A-E1D N	4025112079542	Snap fastening in frame	no	yes	no
2	CHERRY MX1A-Exxx	MX1A-E1D W	-	Fixing pins in the printed circuit board	no	yes	no
3	CHERRY MX1A-Exxx	MX1A-E1G N	-	Snap fastening in frame	LED in green	no	no
4	CHERRY MX1A-Exxx	MX1A-E1J W	-	Fixing pins in the printed circuit board	no	no	yes
5	CHERRY MX1A-Exxx	MX1A-E1N N	-	Snap fastening in frame	no	no	no
6	CHERRY MX1A-Exxx	MX1A-E1N W	-	Fixing pins in the printed circuit board	no	no	no

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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