

## CHERRY MX1A-1xxA/B



Models may vary from the image shown

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

Black switch: Without pressure point, linear actuation - switching function with a defined force of approx. 60 cN without 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

- Black switch: Without pressure point, linear actuation - switching function with a defined force of approx. 60 cN without 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.

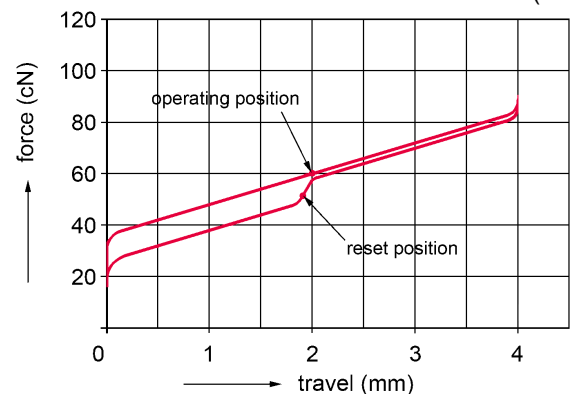
### Technical Data:

#### Housing colour:

Transparent cover, plain base

#### Keymodule:

- Switch type: MX
- Protection class: IP40
- Operation characteristics: BLACK SWITCH Linear (60 cN)



- 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 -0.4 mm
- Pretravel: 2 ± 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: 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-11NA	Snap fastening in frame
2	CHERRY MX RGB Keyswitch	MX1A-11NB	Fixing pins in the printed circuit board

## CHERRY MX1A-1xxx



*Models may vary from the image shown*

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

Black switch: Without pressure point, linear actuation - easy switching function with a defined force of approx. 60 cN without 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.

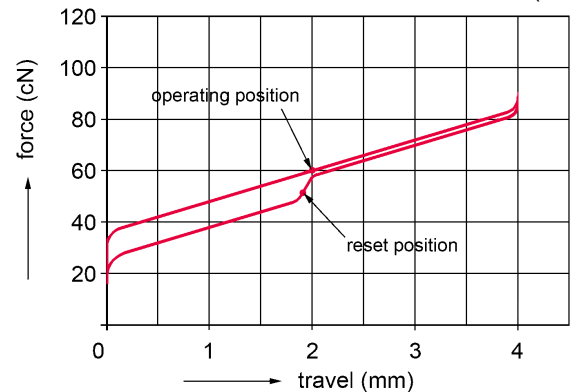
### Key benefits

- Black switch: Without pressure point, linear actuation - easy switching function with a defined force of approx. 60 cN without 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: BLACK SWITCH Linear (60 cN)



- 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 -0.4 mm
- Pretravel: 2 ± 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: 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

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## Models:

	Product name	Order number	EAN code	Fastening	Lighting	Decoupling diode	Wire jumper
1	CHERRY MX1A-1xxx	MX1A-11DN		Snap fastening in frame	no	yes	no
2	CHERRY MX1A-1xxx	MX1A-11DW	4025112060113	Fixing pins in the printed circuit board	no	yes	no
3	CHERRY MX1A-1xxx	MX1A-11GN		Snap fastening in frame	LED in green	no	no
4	CHERRY MX1A-1xxx	MX1A-11GW		Fixing pins in the printed circuit board	LED in green	no	no
5	CHERRY MX1A-1xxx	MX1A-11JN		Snap fastening in frame	no	no	yes
6	CHERRY MX1A-1xxx	MX1A-11JW		Fixing pins in the printed circuit board	no	no	yes
7	CHERRY MX1A-1xxx	MX1A-11NN	4025112060120	Snap fastening in frame	no	no	no
8	CHERRY MX1A-1xxx	MX1A-11NW-1		Fixing pins in the printed circuit board	no	no	no
9	CHERRY MX1A-1xxx	MX1A-11RN		Snap fastening in frame	LED in red	no	no
10	CHERRY MX1A-1xxx	MX1A-11RW		Fixing pins in the printed circuit board	LED in red	no	no
11	CHERRY MX1A-1xxx	MX1A-11YN		Snap fastening in frame	LED in yellow	no	no
12	CHERRY MX1A-1xxx	MX1A-11YW		Fixing pins in the printed circuit board	LED in yellow	no	no

# Mouser Electronics

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[MX1A-11DN](#) [MX1A-11NW](#) [MX1A-11NN](#) [MX1A-11GW](#)