

## CHERRY ML1A-xxxx



*Models may vary from the image shown*

### Lowest profile flat version of the "CHERRY Gold Crosspoint" keyswitches.

ML1A is the lowest profile flat version of the world's leading precision technology for CHERRY mechanical keyswitches. The CHERRY Gold Crosspoint contact concept and the unprecedented production quality "made in Germany" are unique. ML inside combines unrivalled quality, precision and reliability with a low profile and outstanding value for money.

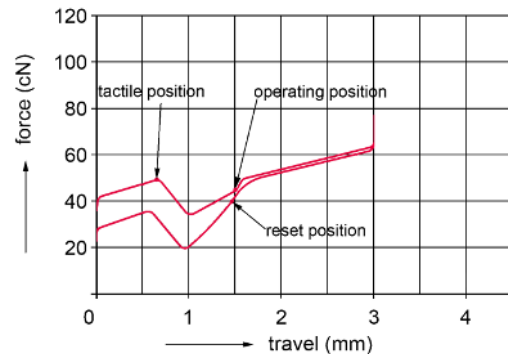
#### Key Benefits

- Mechanical high-precision keyswitch in flat design
- 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
- Pleasant actuation feeling with little resistance
- Very short bounce time for high switching frequency (such as for fast typing)
- Self-cleaning contacts, resistant to dust and dirt
- 20 million keystrokes / contact switches per switch with no loss of quality
- Proven in years of use and continuously developed
- World exclusive CHERRY Gold Crosspoint technology
- Excellent price/performance ratio
- Fastening: Fixing pins in the printed circuit board
- Switching voltage: 12 VAC/DC max.
- Switching current: 10 mA AC/DC max.
- Dielectric strength: 500 V / 50Hz

#### Technical Data:

##### Keymodule:

- Switch type: ML
- Protection class: IP40
- Operation characteristics: ML Pressure point (50cN)



- Durability: > 20 million actuations
- Contact configuration: Single-pole contact
- Actuator travel: 3.0 - 0.5 mm
- Pretravel:  $1.5 \pm 0.5$  mm
- Initial force: 30 cN min.
- Actuation force:  $45 \pm 20$  cN
- Pressure point force:  $50 \pm 20$  cN
- Bounce time: < 5 ms (during actuation with 0,4 m/s)
- Standard lead spacing: 18 mm (16 mm min.)
- Wire jumper: Product dependent, 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
- Dimensions: 6.9 mm

#### Warranty:

- 2 Years



**Models:**

	<b>Product Name</b>	<b>Part Number</b>	<b>Wire Jumper</b>
1	CHERRY ML1A-xxxx	ML1A-11JW	Yes
2	CHERRY ML1A-xxxx	ML1A-11NW	No

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