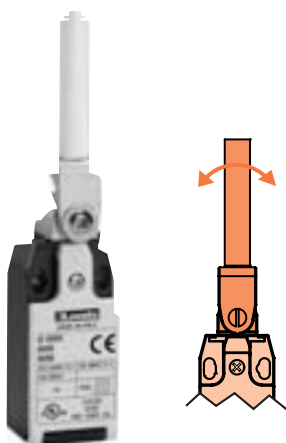


Position and safety switches

KB plastic series and KM metal series limit switches dimensions to EN 50047

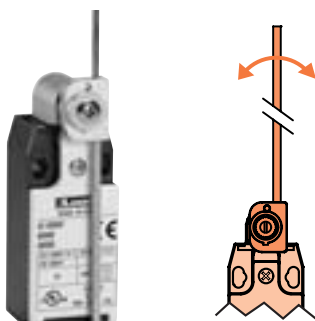
Ceramic rod lever



KB H1 S, KB H1 A, KB H1 L
KM H1 S, KM H1 A, KM H1 L

Contacts	Rod material	Catalog number [Ⓢ] Plastic body	Metal body
Ceramic rod lever.			
1NO+1NC Snap action [Ⓢ]	Ceramic	KB H1 S11	KM H1 S11
2NC Snap action [Ⓢ]	Ceramic	KB H1 S02	KM H1 S02
1NO+1NC Slow break make before break [Ⓢ]	Ceramic	KB H1 A11	KM H1 A11
1NO+1NC Slow break [Ⓢ]	Ceramic	KB H1 L11	KM H1 L11
2NC Slow break [Ⓢ]	Ceramic	KB H1 L02	KM H1 L02
2NO Slow break	Ceramic	KB H1 L20	KM H1 L20
1NO+2NC Slow break [Ⓢ]	Ceramic	KB H1 L12	KM H1 L12
2NO+1NC Slow break [Ⓢ]	Ceramic	KB H1 L21	KM H1 L21
3NC Slow break [Ⓢ]	Ceramic	KB H1 L03	KM H1 L03

Adjustable rod lever

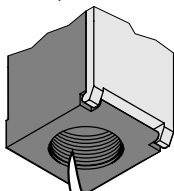


KB L1..., KB L2...
KM L1..., KM L2...

Contacts	Rod material	Catalog number [Ⓢ] Plastic body	Metal body
Adjustable rod lever.			
1NO+1NC Snap action [Ⓢ]	Plastic	KB L1 S11	KM L1 S11
	Metal	KB L2 S11	KM L2 S11
2NC Snap action [Ⓢ]	Plastic	KB L1 S02	KM L1 S02
	Metal	KB L2 S02	KM L2 S02
1NO+1NC Slow break make before break [Ⓢ]	Plastic	KB L1 A11	KM L1 A11
	Metal	KB L2 A11	KM L2 A11
1NO+1NC Slow break [Ⓢ]	Plastic	KB L1 L11	KM L1 L11
	Metal	KB L2 L11	KM L2 L11
2NC Slow break [Ⓢ]	Plastic	KB L1 L02	KM L1 L02
	Metal	KB L2 L02	KM L2 L02
2NO Slow break	Plastic	KB L1 L20	KM L1 L20
	Metal	KB L2 L20	KM L2 L20
1NO+2NC Slow break [Ⓢ]	Plastic	KB L1 L12	KM L1 L12
	Metal	KB L2 L12	KM L2 L12
2NO+1NC Slow break [Ⓢ]	Plastic	KB L1 L21	KM L1 L21
	Metal	KB L2 L21	KM L2 L21
3NC Slow break [Ⓢ]	Plastic	KB L1 L03	KM L1 L03
	Metal	KB L2 L03	KM L2 L03

Ⓢ Direct (positive) operating operation ⊖; safety function according to IEC/EN 60947-5-1.

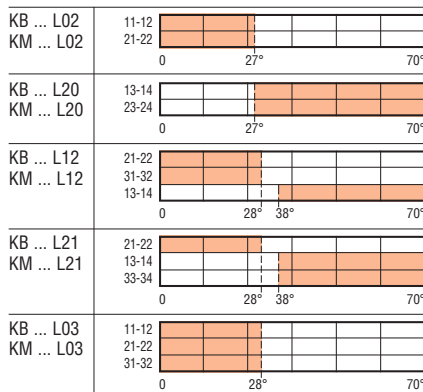
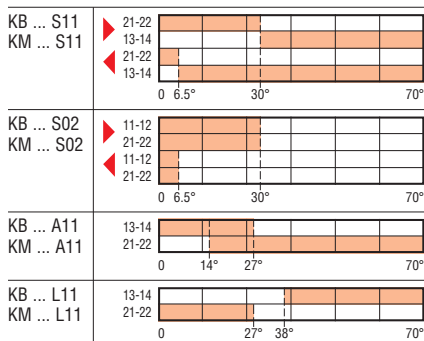
Ⓢ Contact Sales & Technical Support for details and pricing.



M20 ENTRY

For types with 1/2 NPT entry, add the letter N at the end of the catalog number.
E.g. KB L1 S11N

▶ Forward travel of snap action contacts □ open
◀ Return travel of snap action contacts ■ closed



General characteristics

The LOVATO ELECTRIC limit switches have been designed to satisfy requirements comprising quick installation, wiring ease, simple setup, modularity, sturdiness and constant reliability. The body cover has a captive closing screw and is hinged at the bottom and removable. The innovative locking bayonet mechanism consents to remove and reposition the operating head in the required configuration with no tools. The heads have axial rotation of 45° angles. The auxiliary contact blocks are removable assuring remarkable wiring simplicity. The heads are made of metal while the body housing of self-extinguishing polymer thermoplastic for the KB types or of aluminum-zinc alloy (zama) for the KM types.

Operational characteristics

- Maximum operating rate: 3600 cy/h
- Switching time: 0.5-1.5m/s
- Mechanical life: >10 million cycles
- Rated thermal current Ith: 10A
- UL designation: A600 Q300
- Rated insulation voltage Ui: 690V
- Rated impulse withstand voltage Uimp: 6kV
- Class II insulation
- Contact capacity: <10mΩ
- Short-circuit backup protection:
 - slow-blow fuse: 10A aM maximum admissible size
 - quick fuse: 16A gG maximum admissible size
- Wire connection: Self-releasing screw terminal
- Degree of protection:
 - IP20 for terminals
 - IP65 for body housing
- Operators of aluminum-zinc alloy
- Housing:
 - KB series - Self-extinguishing double-insulation polymer thermoplastic
 - KM series - Aluminum-zinc alloy
- Wire entry: M20 standard supplied; 1/2 NPT available (see the side note for details)
- Operating head fixing: Locking bayonet insert
- Operating force: 27 in oz / 3Ncm
- Lever inclination, 360° adjustment at 15° angle positions
- Operating temperature: -13° to +160°F (-25 to +70°C)
- Storage temperature: -40° to +160°F (-40 to +70°C)
- Pollution degree: 3 (suitable for dirty ambient).

Certifications and compliance

Certifications: cULus pending.
Compliant with standards: IEC/EN 60947-5-1, EN 50047, IEC/EN 60204-1, IEC/EN 60081-1.

To locate additional product specifications and technical drawings go to www.asi-ez.com