

Limit, micro and foot switches

Limit switches, K series. One bottom cable entry. Dimensions to EN 50047
Two side cable entries. Dimensions compatible to EN 50047

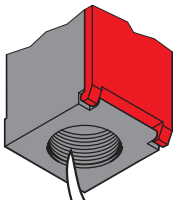
Hinge operating



KB P... - KM P...



KC P... - KN P...



M20 CABLE ENTRY

For types with PG13.5 cable entry, add the letter P at the end of the order code while for 1/2 NPT, add N.
E.g. KBP1L11P - KBP1L11N

Order code Plastic body	Metal body	Contacts	Shaft features	Qty per pkg	Wt
				n°	[kg]

One bottom cable entry. Dimensions to EN 50047.

KB P1 L11	KM P1 L11	1NO+1NC Slow action ①	Short cylinder	5	②
KB P2 L11	KM P2 L11	1NO+1NC Slow action ①	Long solid	5	②
KB P3 L11	KM P3 L11	1NO+1NC Slow action ①	Long solid w/ reduction	5	②
KB P1 L02	KM P1 L02	2NC Slow action ①	Short cylinder	5	②
KB P2 L02	KM P2 L02	2NC Slow action ①	Long solid	5	②
KB P3 L02	KM P3 L02	2NC Slow action ①	Long solid w/ reduction	5	②
KB P1 L12	KM P1 L12	1NO+2NC Slow action ①	Short cylinder	5	②
KB P2 L12	KM P2 L12	1NO+2NC Slow action ①	Long solid	5	②
KB P3 L12	KM P3 L12	1NO+2NC Slow action ①	Long solid w/ reduction	5	②
KB P1 L21	KM P1 L21	2NO+1NC Slow action ①	Short cylinder	5	②
KB P2 L21	KM P2 L21	2NO+1NC Slow action ①	Long solid	5	②
KB P3 L21	KM P3 L21	2NO+1NC Slow action ①	Long solid w/ reduction	5	②
KB P1 L03	KM P1 L03	3NC Slow action ①	Short cylinder	5	②
KB P2 L03	KM P2 L03	3NC Slow action ①	Long solid	5	②
KB P3 L03	KM P3 L03	3NC Slow action ①	Long solid w/ reduction	5	②

Two side cable entries. Dimensions compatible to EN 50047.

KC P1 L11	KN P1 L11	1NO+1NC Slow action ①	Short cylinder	5	②
KC P1 L02	KN P1 L02	2NC Slow action ①	Short cylinder	5	②
KC P1 L12	KN P1 L12	1NO+2NC Slow action ①	Short cylinder	5	②
KC P1 L21	KN P1 L21	2NO+1NC Slow action ①	Short cylinder	5	②
KC P1 L03	KN P1 L03	3NC Slow action ①	Short cylinder	5	②

① Direct (positive) opening action $\odot$; safety function according to IEC/EN 60947-5-1.

② Consult Customer Service for information; see contact details on inside front cover.

General characteristics

The LOVATO ELECTRIC limit switches have been designed to satisfy requirements comprising quick installation, easy wiring, simple setup, modularity, sturdiness and constant reliability.

The body cover is hinged at the bottom and removable. The innovative locking bayonet mechanism permits to remove and reposition the operating head in the required configuration with no tools.

The auxiliary contact blocks are removable assuring remarkable wiring ease.

Operational characteristics

- Maximum operating rate: 3600 cycles/h
- Switching speed: 0.5-1.5m/s
- Mechanical life: >10 million cycles
- IEC conventional thermal current Ith: 10A
- UL/CSA and IEC/EN 60947-5-1 designation:
 - A600 Q300 for KB-KC types
 - A300 Q300 for KM-KN types
- IEC rated insulation voltage U_i :
 - 690VAC for KB-KC types
 - 440VAC for KM-KN types
- IEC rated impulse withstand voltage U_{imp} :
 - 6kV for KB-KC types
 - 4kV for KM-KN types
- Class II insulation for KB-KC only
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG/SC quick fuse
- Operators of aluminium-zinc alloy
- Housing:
 - KB-KC types - Self-extinguishing double-insulation polymer thermoplastic
 - KM-KN types - Aluminium-zinc alloy
- Cable entry: M20 standard supplied; PG13.5 and 1/2 NPT available (see the side note for details)
- Operating head fixing: Locking bayonet insert
- Operating torque: 15Ncm/21.2ozin
- Cable connection: Self-releasing screw terminal
- Tightening torque:
 - Switch fixing: 2.5Nm / 22.1lbin
 - Contact terminals: 0.8Nm / 7lbin
 - Body lid screw fixing: 0.8Nm / 7lbin
- Conductor section: 1 or 2 2.5mm² max / 16-14 AWG
- Ambient conditions:
 - Operating temperature: -25 ... +70°C
 - Storage temperature: -40 ... +70°C
 - Pollution degree: 3
 - IEC degree of protection: IP20 for terminals
 - IEC degree of protection: IP65 for body housing.

Certifications and compliance

Certifications obtained: EAC, UL Listed for USA and Canada (cULus - File E93601), as Auxiliary Devices - Limit switches.

Compliant with standards: EN 50047, IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60204-1, UL508, CSA C22.2 n° 14.

□ open
■ closed

