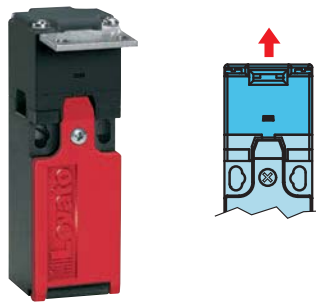


Limit, micro and foot switches

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

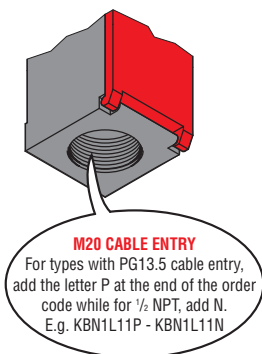
Key operated



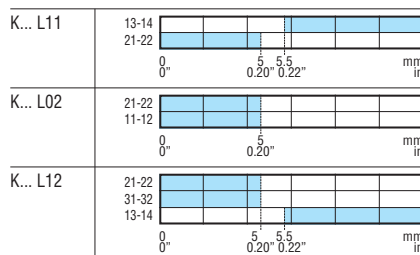
KB N...



KC N...



□ open
 ■ closed



Order code Plastic body	Contacts	Key shape②	Qty per pkg	Wt
			n°	[kg]

One bottom cable entry. Dimensions to EN 50047.

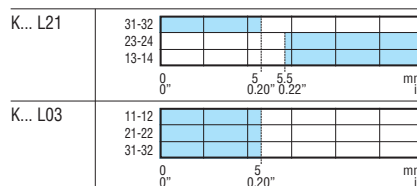
KB N1 L11	1NO+1NC	Straight	5	0.092
KB N2 L11	Slow action①	Angled	5	0.092
KB N3 L11		Straight "T"	5	0.092
KB N4 L11		Angled "T"	5	0.092
KB N1 L02	2NC	Straight	5	0.092
KB N2 L02	Slow action①	Angled	5	0.092
KB N3 L02		Straight "T"	5	0.092
KB N4 L02		Angled "T"	5	0.092
KB N1 L12	1NO+2NC	Straight	5	0.096
KB N2 L12	Slow action①	Angled	5	0.096
KB N3 L12		Straight "T"	5	0.096
KB N4 L12		Angled "T"	5	0.096
KB N1 L21	2NO+1NC	Straight	5	0.096
KB N2 L21	Slow action①	Angled	5	0.096
KB N3 L21		Straight "T"	5	0.096
KB N4 L21		Angled "T"	5	0.096
KB N1 L03	3NC	Straight	5	0.096
KB N2 L03	Slow action①	Angled	5	0.096
KB N3 L03		Straight "T"	5	0.096
KB N4 L03		Angled "T"	5	0.096

Two side cable entries. Dimensions compatible to EN 50047.

KC N1 L11	1NO+1NC	Straight	5	0.107
KC N2 L11	Slow action①	Angled	5	0.107
KC N3 L11		Straight "T"	5	0.107
KC N4 L11		Angled "T"	5	0.107
KC N1 L02	2NC	Straight	5	0.107
KC N2 L02	Slow action①	Angled	5	0.107
KC N3 L02		Straight "T"	5	0.107
KC N4 L02		Angled "T"	5	0.107

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

② The key is standard supplied.



Accessories and spare parts for key operated switches



Order code	Description	Qty per pkg	Wt
		n°	[kg]
K X N1	Straight key	5	0.013
K X N2	Angled key	5	0.013
K X N3	Straight "T" key	5	0.012
K X N4	Angled "T" key	5	0.012
K X N5	Toggle key	5	0.019

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 heads have axial rotation in any of 4 positions at 90° angles.

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 Q600
- IEC rated insulation voltage Ui: 690V
- IEC rated impulse withstand voltage Uimp: 6kV
- Class II insulation
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG/SC quick fuse
- Housing and operators in self-extinguishing double-insulation polymer thermoplastic
- 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 force: 8N/1.8lb
- 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.