

Limit, micro and foot switches

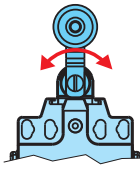
Limit switches, K series.

Two side cable entries. Dimensions compatible to EN 50047

Roller lever plunger



KC E1... - KC E2...
KN E1... - KN E2...



KC E3... - KN E3...

Order code Plastic body	Metal body	Contacts	Roller material	Qty per pkg	Wt
				n°	[kg]

Two side cable entries. Dimensions compatible to EN 50047.

KC E1 S11	KN E1 S11	1NO+1NC	Plastic ①	5	④
KC E2 S11	KN E2 S11	Snap action ⑥	Metal ①	5	④
KC E3 S11	KN E3 S11		Rubber ②	5	④
KC E1 S02	KN E1 S02	2NC	Plastic ①	5	④
KC E2 S02	KN E2 S02	Snap action ⑥	Metal ①	5	④
KC E3 S02	KN E3 S02		Rubber	5	④
KC E1 A11	KN E1 A11	1NO+1NC	Plastic ①	5	④
KC E2 A11	KN E2 A11	Slow action make before break ⑦	Metal ①	5	④
KC E3 A11	KN E3 A11		Rubber ②	5	④
KC E1 L11	KN E1 L11	1NO+1NC	Plastic ①	5	④
KC E2 L11	KN E2 L11	Slow action ⑧	Metal ①	5	④
KC E3 L11	KN E3 L11		Rubber ②	5	④
KC E1 L02	KN E1 L02	2NC	Plastic ①	5	④
KC E2 L02	KN E2 L02	Slow action ⑧	Metal ①	5	④
KC E3 L02	KN E3 L02		Rubber ②	5	④
KC E1 L20	KN E1 L20	2NO	Plastic ①	5	④
KC E2 L20	KN E2 L20	Slow action	Metal ①	5	④
KC E3 L20	KN E3 L20		Rubber ②	5	④

BI-DIRECTIONAL.

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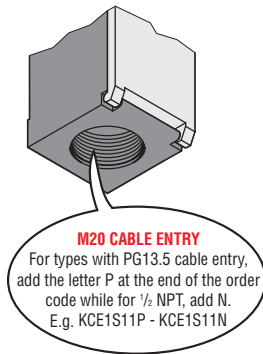
KC E1 D02	KN E1 D02	2NC ⑨ independent	Plastic ①	5	④
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① Ø19x5mm = Ø0.75x0.2"

② Ø50x10mm = Ø1.97"x0.39"

③ Direct (positive) opening action ⊕; safety function according to IEC/EN 60947-5-1.

④ 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 heads have axial rotation of 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 Q300 for KC types
 - A300 Q300 for KN types
- IEC rated insulation voltage Ui:
 - 690VAC for KC types
 - 440VAC for KN types
- IEC rated impulse withstand voltage Uimp:
 - 6kV for KC types
 - 4kV for KN types
- Class II insulation for KC only
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG/SC quick fuse
- Operators of aluminium-zinc alloy
- Housing:
 - KC types - Self-extinguishing double-insulation polymer thermoplastic
 - 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: 3Nm/4.25ozin
- 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: IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60204-1, UL508, CSA C22.2 n° 14.

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

