## Two side cable entries. Dimensions compatible to EN 50047

| Order code <br> Plastic <br> body | Metal <br> body | Contacts | Roller <br> material | Qty <br> per <br> pkg | Wt |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | $n^{\circ}$ | $[\mathrm{kg}]$ |


KC F... - KN F...


| KC F1 S11 | KN F1 S11 | 1NO+1NC <br> Snap action(3 | Plastic 1 | 5 | (4) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KC F2 S11 | KN F2 S11 |  | Metal 1 | 5 | (4) |
| KC F3 S11 | KN F3 S11 |  | Rubber(2) | 5 | (4) |
| KC F4 S11 | KN F4 S11 |  | Rubber off. align.(2) | 5 | (4) |
| KC F1 S02 | KN F1 S02 | 2NC <br> Snap action(3 | Plastic 1 | 5 | (4) |
| KC F2 S02 | KN F2 S02 |  | Metal 1 | 5 | (4) |
| KC F3 S02 | KN F3 S02 |  | Rubber(2) | 5 | (4) |
| KC F4 S02 | KN F4 S02 |  | Rubber off. align.(2) | 5 | (4) |
| KC F1 A11 | KN F1 A11 | 1NO+1NC <br> Slow action make before break(3) | Plastic 1 | 5 | (4) |
| KC F2 A11 | KN F2 A11 |  | Metal 1 | 5 | (4) |
| KC F3 A11 | KN F3 A11 |  | Rubber(2) | 5 | (4) |
| KC F4 A11 | KN F4 A11 |  | Rubber off. align.(2) | 5 | (4) |
| KC F1 L11 | KN F1 L11 | 1NO+1NC <br> Slow action(3 | Plastic 1 | 5 | (4) |
| KC F2 L11 | KN F2 L11 |  | Metal1 | 5 | (4) |
| KC F3 L11 | KN F3 L11 |  | Rubber(2) | 5 | 4 |
| KC F4 L11 | KN F4 L11 |  | Rubber off. align.(2) | 5 | (4) |
| KC F1 L02 | KN F1 L02 | 2NC <br> Slow action(3 | Plastic 1 | 5 | (4) |
| KC F2 L02 | KN F2 L02 |  | Metal1 | 5 | (4) |
| KC F3 L02 | KN F3 L02 |  | Rubber ${ }^{\text {(2) }}$ | 5 | (4) |
| KC F4 L02 | KN F4 L02 |  | Rubber off. align.(2) | 5 | (4) |
| KC F1 L20 | KN F1 L20 | 2NO <br> Slow action | Plastic(1) | 5 | (4) |
| KC F2 L2O | KN F2 L20 |  | Metal 1 | 5 | (4) |
| KC F3 L2O | KN F3 L20 |  | Rubber(2) | 5 | (4) |
| KC F4 L20 | KN F4 L20 |  | Rubber off. align.(2) | 5 | (4) |

. $09 x 5 \mathrm{~mm}=00.75 \times 0.2$
(3) Direct (positive) opening action $\Theta$; safety function according to IEC/EN 60947-5-1.
4 Consult Customer Service for information; see contact details on inside front cover.
off. align. = offset alignment.

## 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 $180^{\circ}$ angles.
The auxiliary contact blocks are removable assuring remarkable wiring ease.

## Operational characteristics

- Maximum operating rate: 3600 cycles/h
- Switching speed: $0.5-1.5 \mathrm{~m} / \mathrm{s}$
- 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: <10m $\Omega$
- 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 force: $3 \mathrm{Ncm} / 4.250$ zin
- Cable connection: Self-releasing screw terminal
- Tightening torque:
- Switch fixing: 2.5Nm / 22.11bin
- Contact terminals: $0.8 \mathrm{Nm} / 7 \mathrm{lbin}$
- Body lid screw fixing: 0.8Nm / 7lbin
- Conductor section: 1 or $22.5 \mathrm{~mm}^{2} \mathrm{max} / 16$-14 AWG
- Ambient conditions:
- Operating temperature: $-25 \ldots+70^{\circ} \mathrm{C}$
- Storage temperature: $-40 \ldots+70^{\circ} \mathrm{C}$
- 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 $n^{\circ} 14$.

Forward travel of snap action contacts $\square$ open
R Return travel of snap action contacts $\square$ closed

