

DUX Limit Switches

EK... Series

Application:

- for automated process control (e.g. monitoring function of doors)
- for movement limitation in processing and manufacturing machines, lifts, ships, conveying systems
- as trigger switches in safety and alarm systems

A multitude of actuators provide high flexibility to suit each particular case of application. The possible combinations help to optimally solve control problems.

Outstanding Features of the EK... Series:

- impact-resistant, hardly inflammable plastic housing
- high reliability in making contact
- easy and time-saving exchange of the actuators

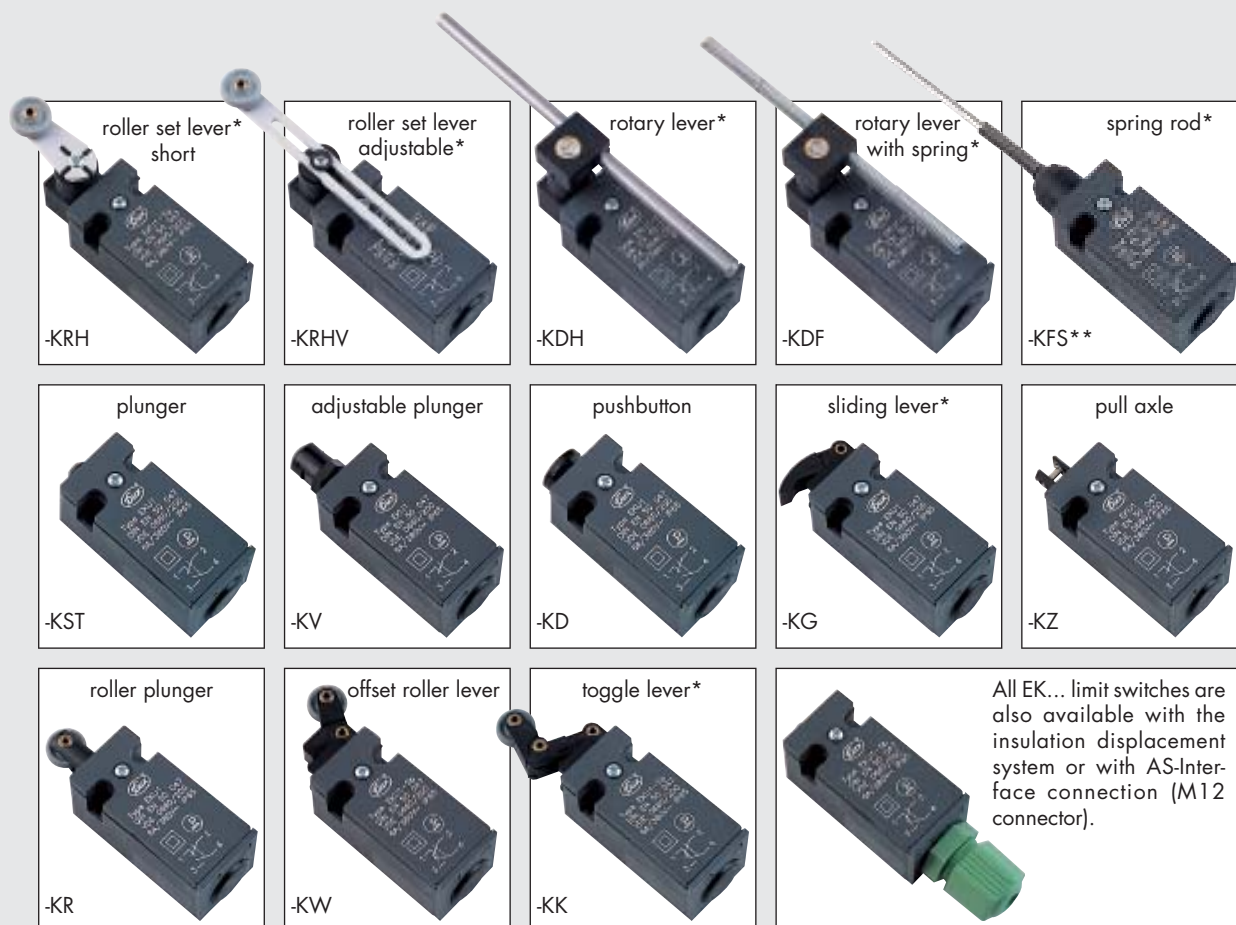
Construction

The limit switches of the EK... series consist of a basic element with plunger axle, plunger seal, locking bolt and cover with gasket; the cover being fixed by a screw. Depending on the application, the user can select from a variety of actuators which are rotatable in accordance with their respective operating direction by $4 \times 90^\circ$. Exceptions are actuators forming a firm connection with the drive shaft, such as the push button, pull axle, roller plunger and adjustable roller plunger. There are two different contact types available:

- slow-action contact EKU1 (positive opening contact)
- snap-action contact EKU1SP (positive opening contact)

Optionally, the switch can be supplied with switching bridge with double contact interruption for contacts of the same potential.





* Note: different plunger shape

** only available with snap-action contact

Technical Data

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| Rated voltage | 380V AC / 220V DC |
| Rated current | 6A |
| Min. switching voltage | 24V slow action / 12V snap action |
| Min. switching current | 0.02A slow action / 0.012A snap action |
| Admissible on-load switching cycles | 1200/h |
| Mechanical life | 1 x 10 ⁷ switching cycles |
| Operating force on plunger | 10 N |
| Operating speed on plunger | max. 0.25m/s, min. 1mm/s AC, min. 20mm/s DC |
| Terminal cross-section | 2 x 0.75 ... 2 x 2.5 mm ² solid 2 x 0.75 ... 2 x 1.5 mm ² multicore with ferrules |
| Screw clamp connection | M 3.5 |
| Fixation acc. to DIN EN 50047 | 2 x M4 |
| Cable entry | M16 |
| Degree of protection acc. to DIN 40050 | IP 65 |
| Construction | acc. to VDE 0660/200 |
| Ambient conditions acc. to DIN IEC 721-3-3 | stationary use at weatherproof locations 3D6/3Z2/3Z10/3B2/3C2/3S3/3M6 -25°C ... +55°C |

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