

# Limit Switches

## General information

### Limit switches, AL and K244 series

#### ■ Description

FUJI AL and K244 series limit switches have wide application in such industrial equipment as machine tools, printing machines, and transfer machines. These switches feature a sturdy aluminum die-cast housing that is highly resistant to oil, water, and dust, and long mechanical life — 10 million operations minimum.

#### AL series

AL and AL-S series limit switches feature a forced contact opening mechanism.

Under abnormal conditions, the mechanism forces the contacts open to prevent pitting and fusing.

Gold-plated silver contacts with scrubbing action have high reliability.



#### K244 series

The K244 series is provided with four kinds of contact operating action: standard normal stroke, snap action, make-before-break, and extended stroke.

WK244 of the K244 series has bifurcated contacts, while HK244 features a scrubbing action mechanism. These limit switches can be used in low-level circuits of 3V, 5mA.

#### ■ Selection guide

Basic type	AL Standard	AL-S Compact type	K244 Standard	HK244 For low-level circuit	WK244 For low-level circuit
Rated voltage (max.)	550V AC, 250V DC*1		550V AC/DC		
Rated thermal current	10A (5A*1)		10A		
Operating cycles per hour	7,200		3,000		
Expected life (operations)	10 millions 100,000 (at 125V AC, 5A res. load for snap action type)		10 millions 1 million*2 (at 220V AC, 10A res. load)	10 millions 400,000 (at 220V AC, 10A res. load)	10 millions 500,000 (at 220V AC, 2.5A res. load)
Contact arrangement	1NO+1NC		1NO+1NC, 2NO+2NC		
Contact	Single button		Single button		Bifurcated
Degree of protection (IEC)	IP67		-		
Features	Forced contact opening mechanism as standard  Highly reliable gold-plated silver contacts		A wide variety of contact operating action  Sealed types for oily and wet environments		
Page	05/99		05/113	05/120	05/120

\*1: For snap action type

\*2: 400,000 for snap action type