KAYCEE

BRAND THAT SETS THE STANDARD

Since 1942

LIMIT SWITCHES

Smart Sensing. Dependable Control.



Precision Detection

Reliable Switching

Robust Construction

Industrial Grade

Long Service Life

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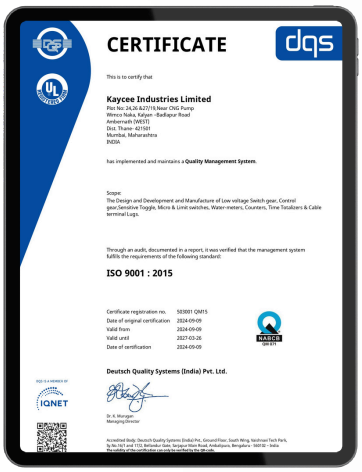
www.kayceeindustries.com

About Us

Established in 1942, Kaycee Industries Limited is a leading manufacturer of high-quality electrical switching & control solutions. Our diverse product portfolio includes rotary switches, cam switches, limit switches, relays, terminal blocks, auxiliary switches, & customized electromechanical solutions that serve industries across India & global markets.

Driven by engineering excellence, innovation, & uncompromising quality, we deliver reliable products for industrial automation, power, infrastructure, railways, renewable energy, and OEM applications. Backed by advanced manufacturing facilities, stringent quality standards, & a customer-centric approach, Kaycee continues to build lasting partnerships by delivering dependable solutions that meet evolving industry needs.





80+ YEARS EXPERIENCE
A legacy of trust & engineering excellence since 1942

QUALITY ASSURED
ISO certified processes ensuring consistent quality and reliability.

TRUSTED BY LEADING OEMS
Preferred partner for OEMs & industrial customers.

CUSTOM ENGINEERING
Tailor-made solutions built to meet unique customer requirements.

PAN INDIA NETWORK
Strong distribution & service network across India

GLOBAL PRESENCE
Serving customers in international markets with pride.

DESCRIPTION

Kaycee Limit Switches type KLS have been specially designed to convert a mechanical motion into an electrical control signal. The mechanical motion is usually in the form of a cam, a machine component or an object moving towards a predetermined position. The cam engages the limit switch roller lever or plunger and in turn makes or breaks an electrical contact inside the switch. This electrical control signal is then used to limit, position or reverse motion travel or to initiate another operating sequence. It can also be used for counting, sorting or as a safety device. Typical applications of the Kaycee Limit Switch are in the control circuit of solenoids control relays and motor starters (switch control the motion of the machine tools), presses, conveyors, hoists, elevators and practically every type of motor drive machines.

APPLICATIONS :

Kaycee Limit Switches are available in four basic types. They are normally used where actuation is relatively fast or for snap action where action is relatively slow. The extended NO contact closes considerably after the NC contact opens and the overlapping NO contact closes before the NC contact opens.
The basic limit switches are also available in standard die cast aluminium housing with or without oil tight enclosure and with three types of actuators, namely push rod, normal roller lever and angular roller lever.

CIRCUITRY : Type KLS is available in 2, 3 and 4 set of contact arrangement.

STANDARDS : KLS Limit Switches conform to the following standards.
IS 13947-5-1-3
IEC947-5-1-3

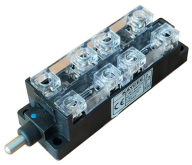
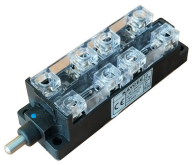
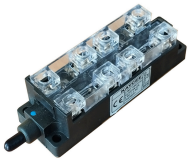
TECHNICAL DATA

Rated Insulation Voltage	500 V AC 600 V DC					
Rated Thermal Current	10A					
Rated Operational Current	AC			DC		
	Ue V	Ie/AC 12 A	Ie/AC 15 A	Ue V	Ie/DC 12 A	Ie/AC 13 A
	24	10	10	24	10	10
	125	10	10	48	6	4
	230	10	6	110	4	1
	400	10	4	220	1	0.4
	500	10	3	440	0.5	0.2
Short Circuit Protection HRC fuse	10A					
Mechanical Life	10 Lakhs switching cycles					
Electrical Life (AC 15)	7 Lakhs switching cycles					
Switching Frequency At temp. below-20°C Only 500 make/break Ops/hour are possible	Breaking Current A 0.1 1.0			Switching Frequency Max. Opn./h 6000 3000		
Ambient Temp.	-40°C to +80°C					
Degree of Protection	Open Type IP 00 Switching chamber IP 40 Aluminium Casting IP 43 Oil-Tight IP 65					
Conductor Size (M-3.5 Screw Terminals)	Ring / Fork type lug 2x2.5mm2 stranded cable					
Cable Entry For Cast-metal Housing	M18					
Protective Earth Conductor Connection Inside Housing Outside Housing	M-3.5 Tapped hole M-3.5 terminal screw					
Housing	Cast Aluminium					
Mounting Position	Any					

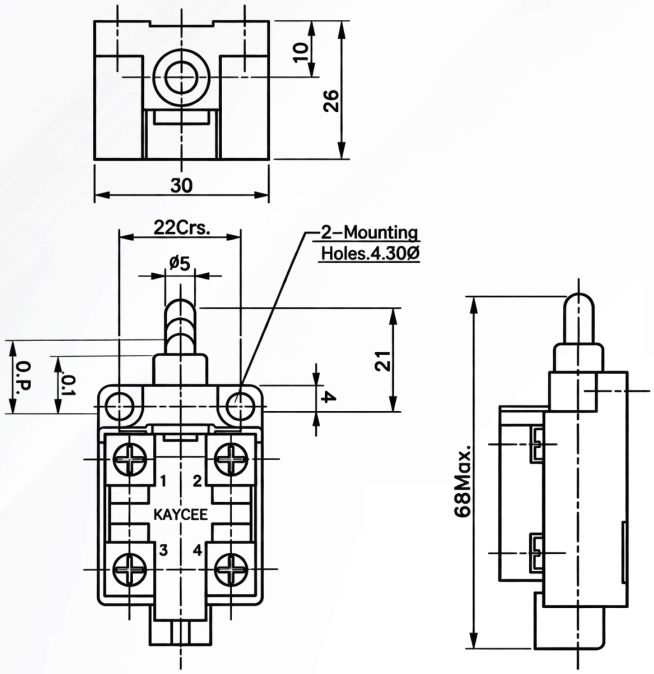
4 CONTACT LIMIT SWITCH

Execution		Design	Code	Contacts		Enclosure
				Arrangement	No. of Contacts	
Open		With SS push rod	KLS000X-OA KLS000X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 00
		With Plastic push rod	KLS000X-OA/P KLS000X-OB/P	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 00
		With SS push rod & Plastic FP Protective Cover	KLS001X-OA KLS001X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 40
		With Plasic push rod & Plastic FP Protective Cover	KLS001X-OA/P KLS001X-OB/P	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 40
		With Roller Plunger (TR)	KLS000X-OA/TR KLS000X-OB/TR	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 00
		With Roller Plunger (XTR)	KLS000X-OA/XTR KLS000X-OB/XTR	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 00
		With Roller Plunger (TR) & Plastic FP Protective Cover	KLS001X-OA/TR KLS001X-OB/TR	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 40
		With Roller Plunger (XTR) & Plastic FP Protective Cover	KLS001X-OA/XTR KLS001X-OB/XTR	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 40

6 & 8 CONTACT LIMIT SWITCH

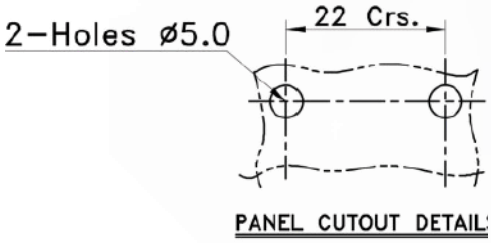
Execution		Design	Code	Contacts		Enclosure
				Arrange ment	No. of Contacts	
Open		With SS push rod	KLS123X-OA KLS213X-OA KLS203X-OA KLS023X-OA	Normal	1 NO +2 NC 2 NO +1 NC 2 NO 2 NC	IP 00
		With SS push rod	NKLS123X-OA/F NKLS213X-OA/F NKLS203X-OA/F NKLS023X-OA/F	Normal	1 NO +2 NC 2 NO +1 NC 2 NO 2 NC	IP 00
		With Plastic push rod	NKLS123X-OA/F/P NKLS213X-OA/F/P NKLS203X-OA/F/P NKLS023X-OA/F/P	Normal	1 NO +2 NC 2 NO +1 NC 2 NO 2 NC	IP 00
		With SS push rod & Finger Proof Protective Cover	NKLS123X-OA NKLS213X-OA NKLS203X-OA NKLS023X-OA	Normal	1 NO +2 NC 2 NO +1 NC 2 NO 2 NC	IP 40
		With Plastic push rod & Finger Proof Protective Cover	KLS123X-OA/P KLS213X-OA/P KLS203X-OA/P KLS023X-OA/P	Normal	1 NO +2 NC 2 NO +1 NC 2 NO 2 NC	IP 40
		With SS push rod & FP Protective Cover	KLS224X-OA	Normal	2 NO +2 NC	IP 40
		With Plastic push rod & FP Protective Cover	KLS224X-OA/P	Normal	1 NO +1 NC 1 NO +1 NC	IP 40

DIMENSIONS OF 4, 6 & 8 CONTACT LIMIT SWITCH (ALL IN m.m.)



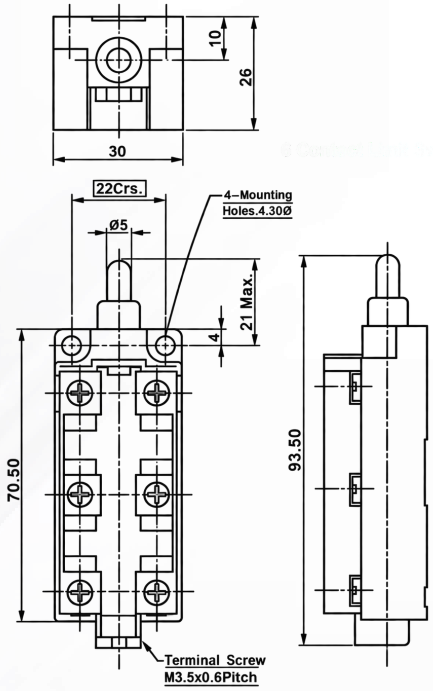
4 Contact Limit Sw

CODE	F.P.	O.P.	O.T.
KLS000X-OA	21	19.5	3.5
KLS000X-OB	21	17.3	3.5



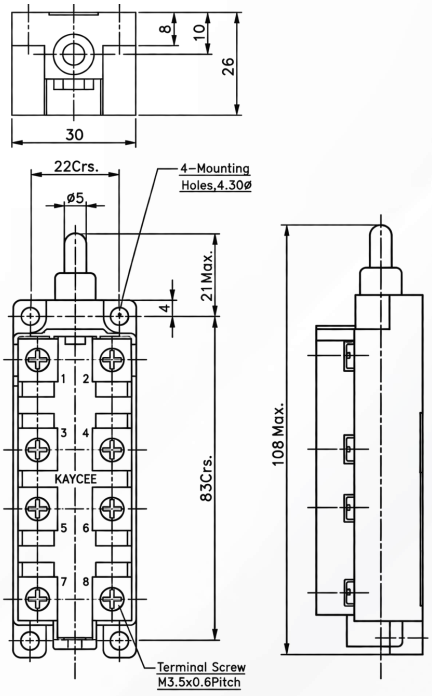
6 Contact Limit Switch

CODE	F.P.	O.P.	O.T.
KLS123X-OA	21	19.5	3.5
KLS213X-OA			
KLS203 X-OA			
KLS023X-OA			



8 Contact Limit Switch

CODE	F.P.	O.P.	O.T.
KLS224X-OA	21	19.5	3.5

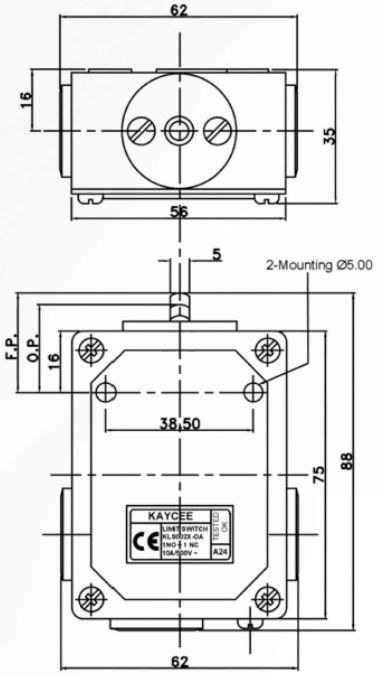


STD. LIMIT SWITCH WITH ENCLOSURE

Execution		Design	Code	Contacts		Enclosure
				Arrange ment	No. of Contacts	
In standard die-cast aluminium housing		With push rod	KLS002X-OA KLS002X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43
		With Normal Roller lever	KLS003X-OA KLS003X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43
		With Angular Roller Lever	KLS004X-OA KLS004X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43
In plastic enclosure		With Plastic Enclosure & Push Rod	PKLS002X-OA PKLS002X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43
		With Plastic Enclosure & Normal Roller lever	PKLS003X-OA PKLS003X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43
		With Plastic Enclosure & Angular Roller Lever	PKLS004X-OA PKL5004X-OB	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 43

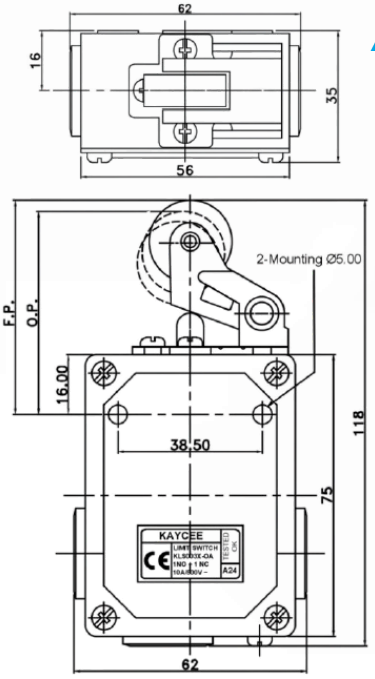
DIMENSIONS OF STD. LIMIT SWITCH WITH ENCLOSER (ALL IN m.m.)

Std. Limit Switch with Push Rod



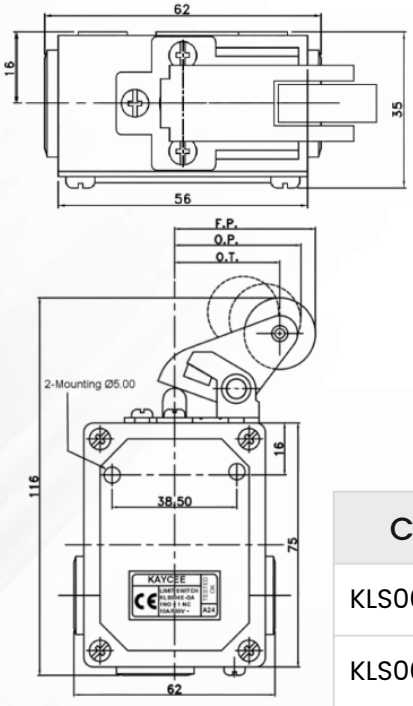
CODE	F.P.	O.P.	O.T.
KLS002X-OA	26	23	3
KLS002X-OB	26	23	3

Std. Limit Switch with Normal Roller Lever



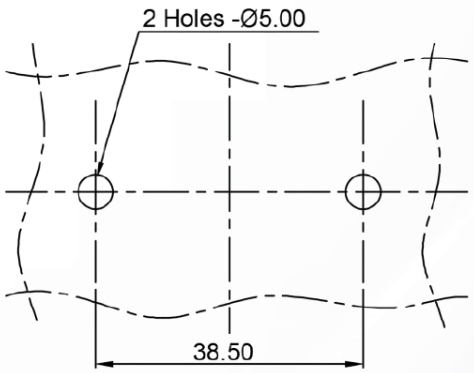
CODE	F.P.	O.P.	O.T.
KLS003X-OA	57	54	3
KLS003X-OB	57	54	3

Std. Limit Switch with Angular Roller Lever



CODE	F.P.	O.P.	O.T.
KLS004X-OA	45	42	3
KLS004X-OB	45	42	3

Panel Cut-out Details

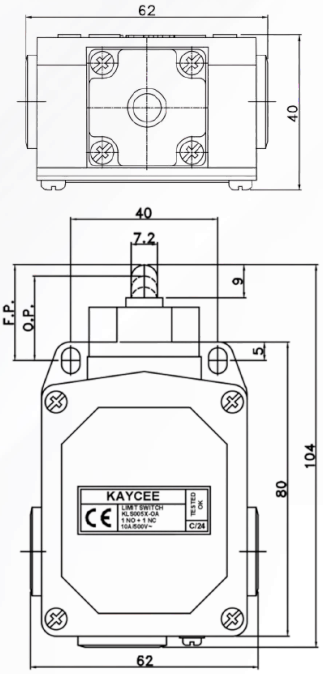


600 SERIES OIL TIGHT LIMIT SWITCH

Execution		Design	Code	Contacts		Enclosure
				Arrangement	No. of Contacts	
In oil-tight die-cast aluminium housing		With push rod	KC 601N KC 601	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 65
		With Normal Roller lever	KC 603N KC 603	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 65
		With Angular Roller Lever	KC 607N KC 607	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 65
		With push rod	KC 610N KC 610	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 65
		With Roller Plunger	KC 611N KC 611	Normal Snap Action	1 NO +1 NC 1 NO +1 NC	IP 65

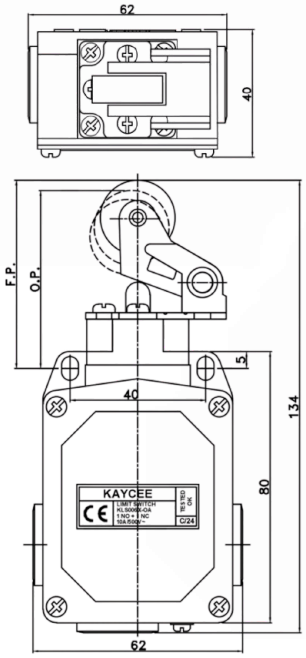
DIMENSIONS OF 600 SERIES OIL TIGHT LIMIT SWITCH (ALL IN m.m.)

Oil-Tight Limit Switch With Push Rod



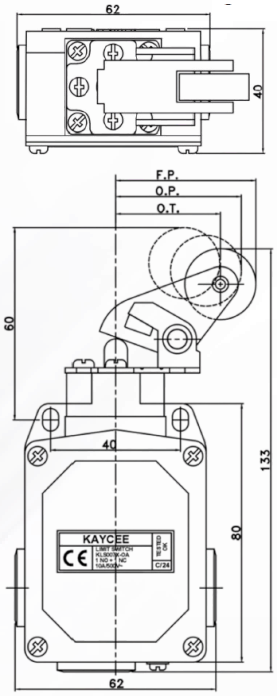
CODE	F.P.	O.P.	O.T.
KLS005X-OA	26	23	3
KLS005X-OB	26	23	3

Oil-Tight Limit Switch with Normal Roller Lever



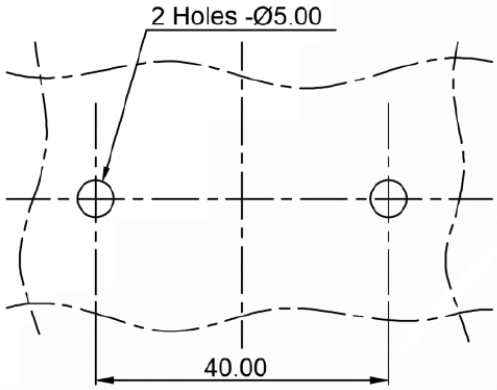
CODE	F.P.	O.P.	O.T.
KLS006X-OA	55.5	52.5	3
KLS006X-OB	55.5	52.5	3

Oil-Tight Limit Switch with Angular Roller Lever



CODE	F.P.	O.P.	O.T.
KLS007X-OA	45	42	3
KLS007X-OB	45	42	3

Panel Cut-out Details

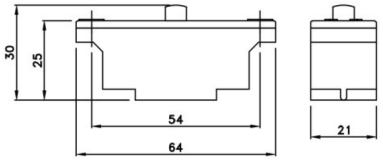
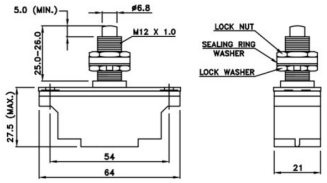
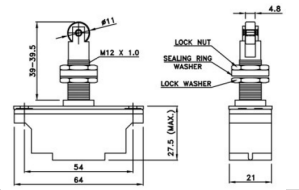
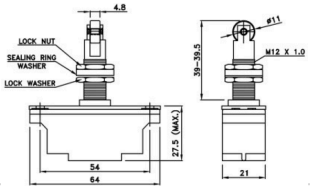
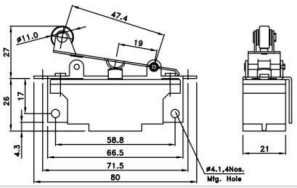
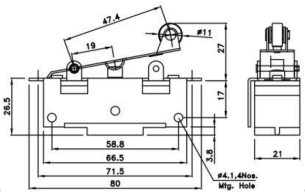
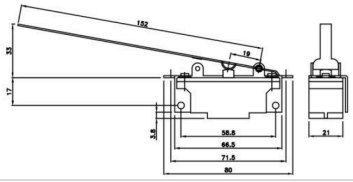
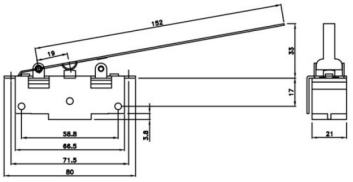


PRECISION LIMIT SWITCH (KPLS)

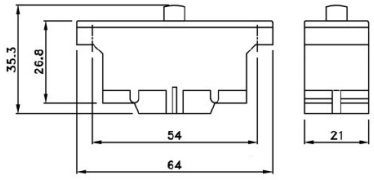
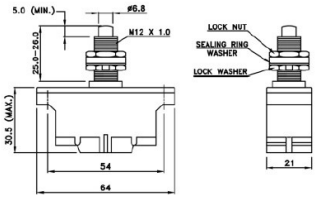
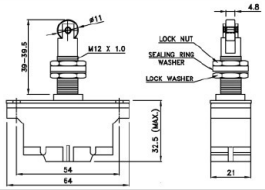
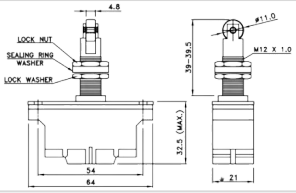
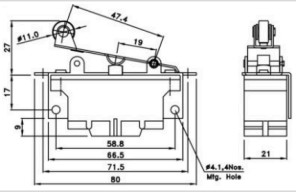
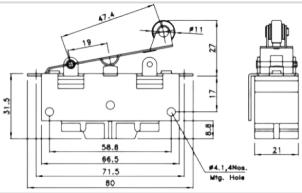
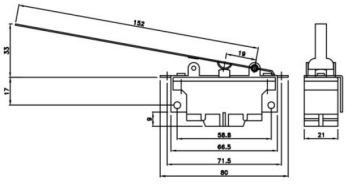
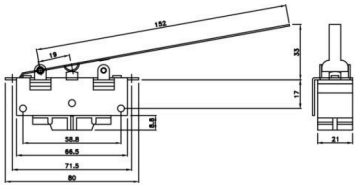
TECHNICAL DATA AS PER STANDARD IEC 60947-5-1 OF 1997

Design	16 Types of Operating Heads
Contact Combination	Single Pole -1NO+1NC, Double Pole - 2NO+2NC
Mechanism	Snap Action
Electrical Rating	10A, 600 VAC
Utilization Category	AC 15 AND DC 13
Frequency of operation	2500 Operations / Hours (Max.)
Terminal Capacity	2.5 sq.mm Solid / Standard Conductors
Electrical Protection	Dust Proof without operator IP 65 from the top for Plunger type IP 4X from the top for lever type
Mechanical Life	20 Millions Operations without operator & 10 Millions Operations with operator
Operating Force	0.400 kg (min) & 0.600 kg (max.)
Application	Machine Tools With different attachments, contact blocks for foot switches And contact blocks for micro adjustable limit switches

PRECISION LIMIT SWITCH (KPLS) 1NO+1NC

CODE	DESCRIPTION	DIMENSIONS (All in mm)
KPLS-011	KPLS 1NO+1NC Basic Switch	
KPLS-012	KPLS 1NO+1NC Push Button Switch	
KPLS-013	KPLS 1NO+1NC Hor. Push Roller Switch	
KPLS-014	KPLS 1NO+1NC X Push Roller Switch	
KPLS-015	KPLS 1NO+1NC RH Roller Lever Switch	
KPLS-016	KPLS 1NO+1NC LH Roller Lever Switch	
KPLS-017	KPLS 1NO+1NC RH Long Plain Lever Switch	
KPLS-018	KPLS 1NO+1NC LH Long Plain Lever Switch	

PRECISION LIMIT SWITCH (KPLS) 2NO + 2NC

CODE	DESCRIPTION	DIMENSIONS (All in mm)
KPLS-021	KPLS 2NO+2NC Basic Switch	
KPLS-022	KPLS 2NO+2NC Push Button Switch	
KPLS-023	KPLS 2NO+2NC Hor. Push Roller Switch	
KPLS-024	KPLS 2NO+2NC X Push Roller Switch	
KPLS-025	KPLS 2NO+2NC RH Roller Lever Switch	
KPLS-026	KPLS 2NO+2NC LH Roller Lever Switch	
KPLS-027	KPLS 2NO+2NC RH Long Plain Lever Switch	
KPLS-028	KPLS 2NO+2NC LH Long Plain Lever Switch	

KAYCEE



COMPLETE SWITCHING SOLUTIONS

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WEBSITE
www.kayceeindustries.com

PHONE
+91 9324780418 / 8208712614

EMAIL
sales@kayceeindustries.com

ADDRESS
Plot No. 24, 26 & 27/19, Vimco naka,
Gaon Devi Mandir rd, Morivali & Chikloli ,
Ambernath industrial area, Nr.Cng Pump,
Ambernath Midc, Ambernath - 421501,
Thane , Maharashtra, India