



An ISO 9001 : 2008 Company

Precision Limit Switch

Series PS

Snap Action Precision Limit Switches (Series PS) from Essen are heavy duty switches for use in high reliability applications. These switches have an estimated mechanical Life of 10 million operation and provide accurate repeatability of electrical and mechanical operating characteristics. Several actuator options with Single Pole (1NO + 1NC) or Double Pole (2NO + 2NC) contact arrangements, provide a large selection range for the user to choose from. This series is intended for cost effective applications in industry like material handling equipment, conveyors, machine tools, food processing among many other.



Characteristics:-

- ✓ Single Pole (1NO + 1NC) & Double Pole (2NO + 2NC) Changeover Snap Action.
- ✓ Quick break before make action.
- ✓ Long mechanical life 10 million operations (minimum)
- ✓ Fine Silver contacts, wiping action and high contact pressure assured on dry circuit applications.
- ✓ Semi dust proof (IP-10) thermoplastic enclosure of high physical strength and high arc resistant.
- ✓ Dielectrical Strength : 1000V AC for 1 minute between non continuous terminals.
1500V AC for 1 minute between terminals and body (ground)

Type of Actuators:-

- ✓ **Plain Plunger Actuator**
Actuators are designed for one hole mounting. These operations are designed for an in-line actuating motion with controlled over-travel.
- ✓ **Roller Plunger Actuator**
Actuators are designed for one hole mounting. The roller plunger either in line with the length of the limit switch or at right angle to it. This allows the roller to accept cam or slide from any of the four directions.
- ✓ **Six Inch (150mm) Plain Lever Actuator**
Actuators are provided either top and right hand mounting or top and left hand mounting. The lever may be cut or bent to any desired length and shape by the user to satisfy unusual requirements.
- ✓ **Roller Lever Actuator**
Actuators are provided either top and right hand mounting or top and left hand mounting. The levers are equipped with a steel roller which may be actuated by a cam or some similar actuating device. Operation is provided in both directions.



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Electrical Ratings

- ✓ Utilisation category : AC 15 (B600) & DC 13 (Q300) as per IEC 947-5-1
- ✓ Thermal Current (Ith) : 15A for single pole (1NO + 1NC). 10A for double pole (2NO + 2NC)
- ✓ Insulation voltage (Ui) : 600V AC

Operational current and voltage:-

AC 15 RATING (B600)

Voltage	Single Pole (1NO + 1NC)	Voltage	Double Pole (2NO + 2NC)
120V	6.0A	120V	3.0A
240V	3.0A	240V	1.5A
480V	1.5A	480V	0.8A
600V	1.2A	600V	0.6A

DC 13 RATING (Q300)

Voltage	Single Pole (1NO + 1NC)		Voltage	Double Pole (2NO + 2NC)	
	Single Throw	Double Throw		Single Throw	Double Throw
120V	0.5A	0.25A	115V	1.0A	0.2A
240V	0.25A	0.1A	230V	0.3A	0.1A
600V	0.05A	---	600V	0.1A	

Mechanical Life	:	20 X 10 ⁶ Operations without Actuator
	:	10 X 10 ⁶ Operations with Actuator
Electrical Life	:	5,00,000 operation (min) at 5A, 250V AC resistive load.
Frequency of Operation	:	2500 Operations per hour (Max)
Terminal Capacity	:	2.5 mm ² Solid or Stranded conductors
Operating Force	:	595 gm (Max), 387 gm (Min.)
Pretravel (PT)	:	1.73 - 2.36 mm
Over Travel	:	1.57 mm
Movement Differential	:	1.27 mm
Operating Position	:	5.05 mm (Max)
Operating Temperature	:	- 10°C to 70°C

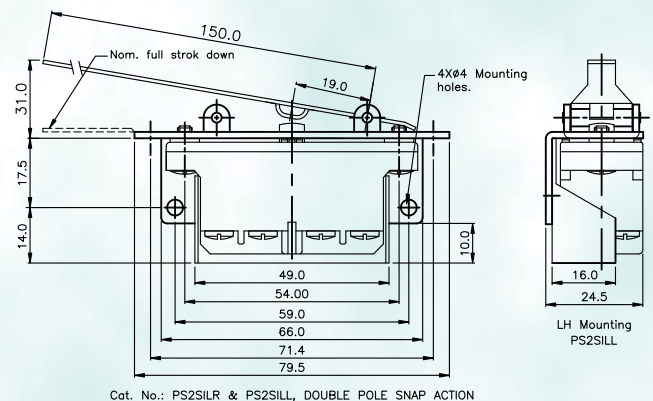
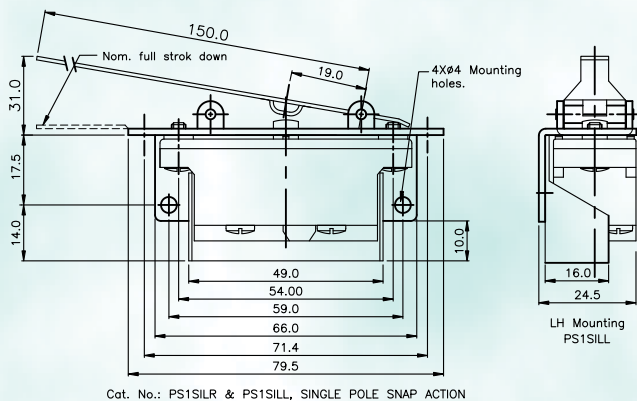
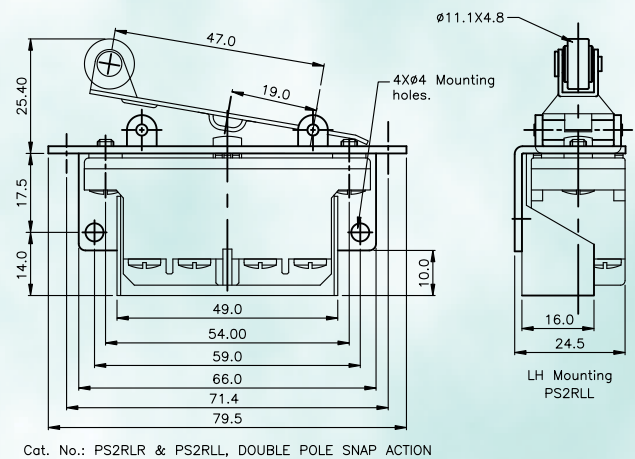
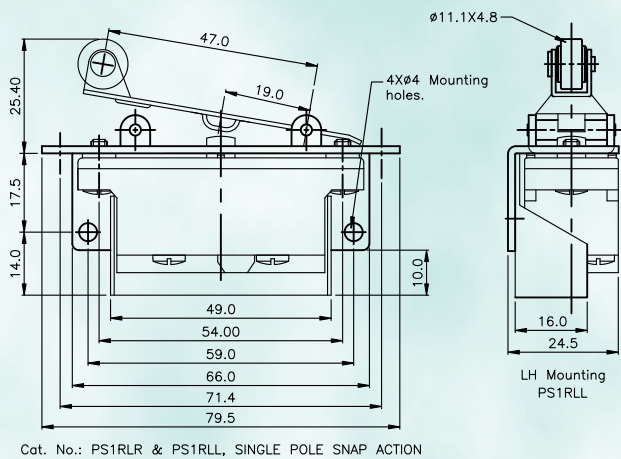
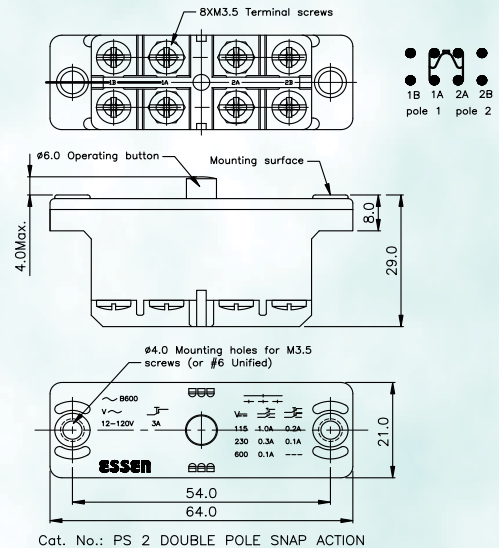
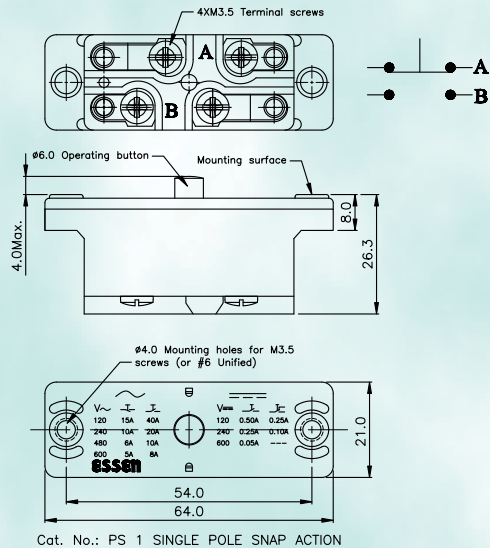


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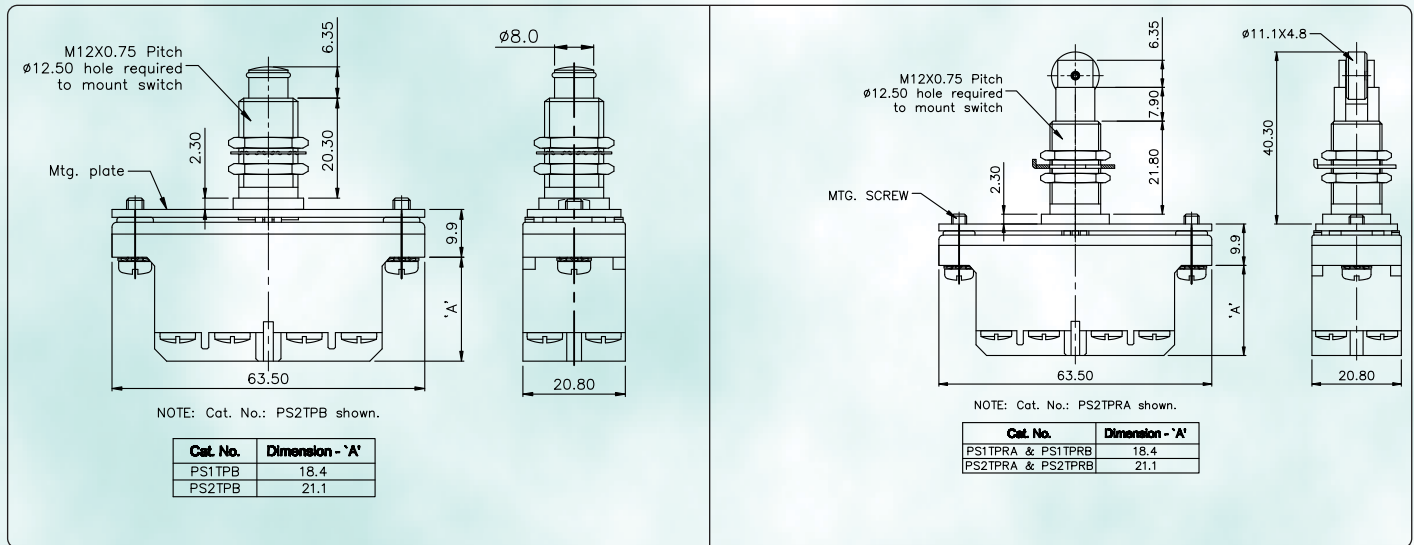


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Ordering Code

Description	ESSEN PART NO	
	SINGLE POLE 1NO + 1NC	DOUBLE POLE 2NO + 2NC
Basic Switch without Actuator	PS 1	PS 2
Plunger Type, Panel Mounting	PS 1TPB	PS2TPB
Roller Plunger in Line to contact block, Panel Mounting	PS1TPRA	PS2TPRA
Roller Plunger at Right Angle to contact block, Panel Mounting	PS1TPRB	PS2TPRB
6" Lever (Right Hand Mounting)	PS1SILR	PS2SILR
6" Lever (Left Hand Mounting)	PS1SILL	PS2SILL
Roller Lever (Right Hand Mounting)	PS1RLR	PS2RLR
Roller Lever (Left Hand Mounting)	PS1RLL	PS2RLL

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