

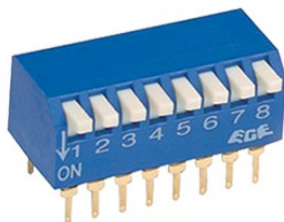


Switch

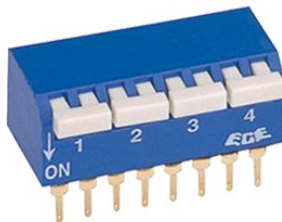
EPH/EPG/EPS SERIES EDGE ACTUATED TYPE



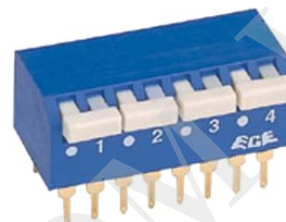
EPH
Housing Height 5mm Only!!



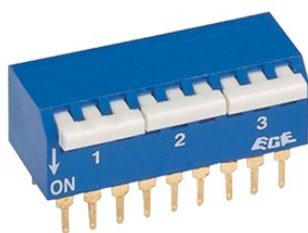
EPG/EPS SPST



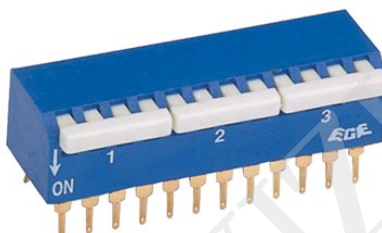
EPG/EPS DPST



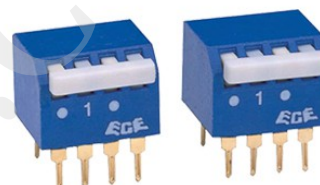
EPG/EPS SPDT



EPG/EPS 3PST



EPG/EPS 4PST



EPG/EPS DPDT

■ FEATURES

- Edge actuated type (Piano Type) easy setting on closely racked PCB.
- Tactile response is performed directly by larger contact pressure to ensure stable contact
- All plastics are UL 94V-0 grade fire retardant
- Bottom epoxy sealed to ensure free of flux immersion during wave soldering
- Contact wiping on make and break
- Gold, Silver, or Tin plated contacts to ensure low contact resistance and long operation life
- Ideal for data processing, communications, remote controls and burglar alarm system use, where manual programming required
- RoHS Compliant
- Halogen Free series available

■ APPLICATIONS

- Numerical setting for computer terminal equipment
- Price setting for vending machines
- Programming for game machines
- Programming for industrial equipment and measuring instruments

■ SPECIFICATIONS

1.ELECTRICAL

● Contact rating	
switching	25mA, 24VDC
non-switching	100mA
● Contact resistance (After life test)	100mΩ Max. (300mΩ Max. for Tin plated type)
● Insulation resistance	1000MΩ Min. at 100VDC
● Dielectric strength	500VDC Min. for 60 seconds
● Leakage Current	2mA Max.
● Capacitance between adjacent switches	5pF Max.

2.MECHANICAL AND ENVIRONMENTAL

● Temperature rating	
operating	-40°C to +85°C
storage	-40°C to +85°C
● Operation force	800g Max. (SPST only)
● Mechanical life	1000 operations (EPH) 2000 operations (EPG/EPS)
● Humidity	95 %RH, 40°C for 96 Hrs.
● Vibration	10Hz-55Hz-10Hz for 6 Hrs.
● Solderability	After flux 245±5°C for 5±1 seconds.
● Resistance to soldering heat	Solder bath:260±5°C for 5±1 seconds.
● WARNING: Please keep contacts in OFF position during reflow soldering.	

■ PART NUMBERING SYSTEM

EPH 1 04 XX XX X

Z: RoHS Compliant

H: Halogen Free series

Special product number

Actuator and ON Positon:

E: Extended Actuator and Top Side "OFF"

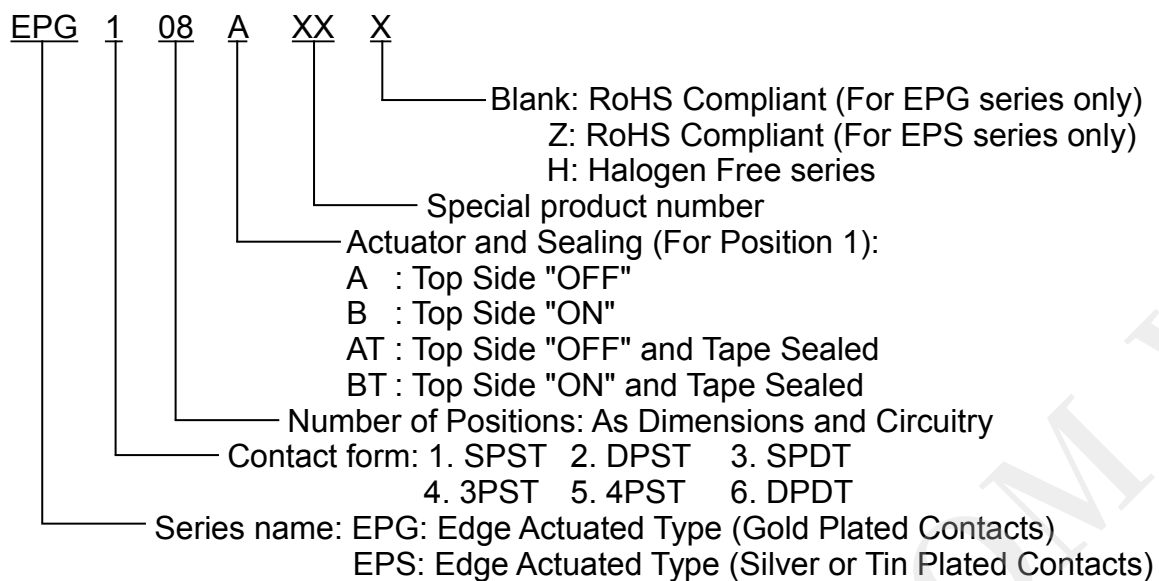
L: Low Profile Actuator and Top Side "OFF"

BE: Extended Actuator and Top Side "ON"

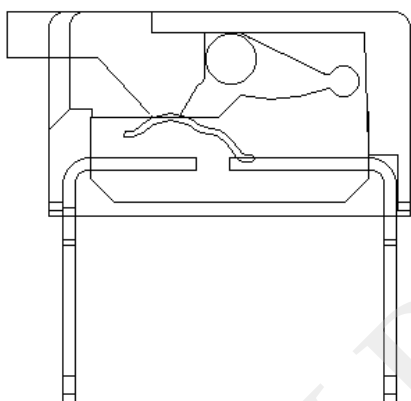
Number of Positions: 2, 3, 4, 5, 6, 8, 10

Contact Form: SPST

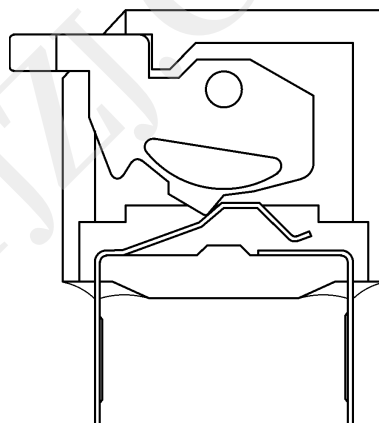
Series Name: EPH: Piano type



CONSTRUCTION



EPH



EPG/EPS

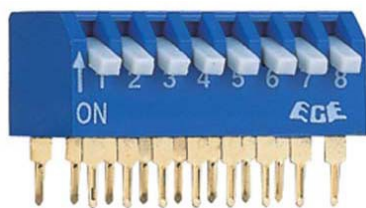
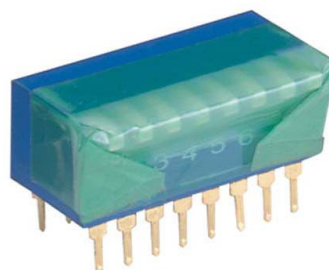
OPTIONS

- 1.Special top or side marking available
- 2.Blue or black body color
- 3.Normal "ON" (top side "ON") available
- 4.Tape sealed

EPHxxxLT

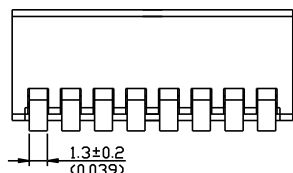


EPGxxxxT

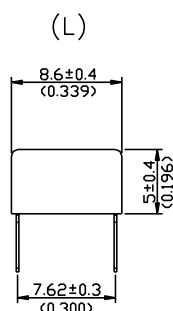
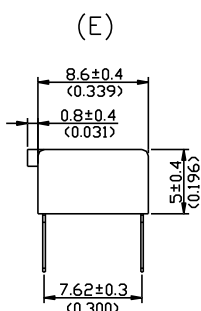
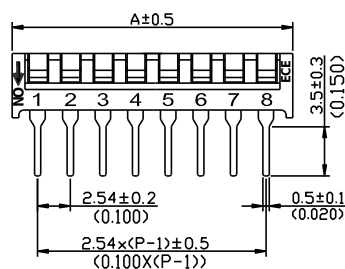


DIMENSIONS AND CIRCUITRY

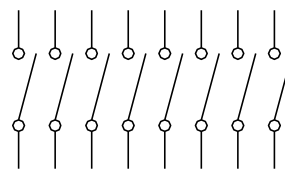
EPH SERIES



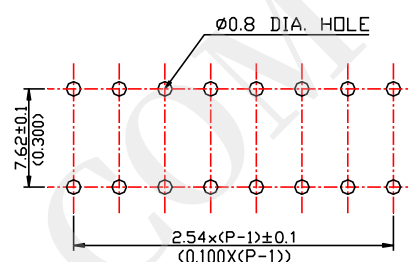
Actuator top side "OFF"



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

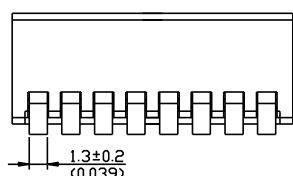


DIMENSION A

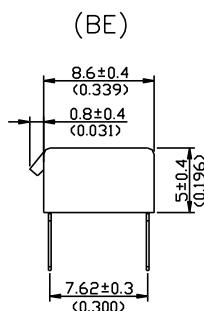
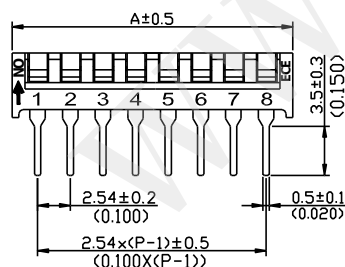
UNIT: mm (inch)

POLE	2	3	4	5	6	8	10
A	6.5 (0.256)	9.0 (0.354)	11.6 (0.457)	14.1 (0.555)	16.7 (0.657)	21.7 (0.854)	26.7 (1.050)

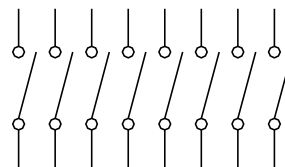
EPH SERIES B TYPE



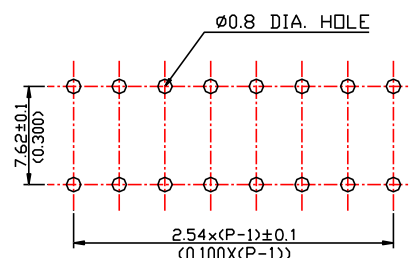
Actuator top side "ON"



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

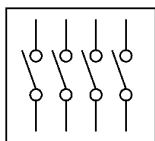
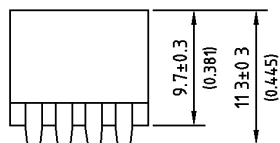


DIMENSION A

UNIT: mm (inch)

POLE	2	3	4	5	6	8	10
A	6.5 (0.256)	9.0 (0.354)	11.6 (0.457)	14.1 (0.555)	16.7 (0.657)	21.7 (0.854)	26.7 (1.050)

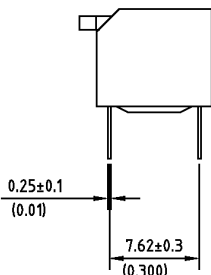
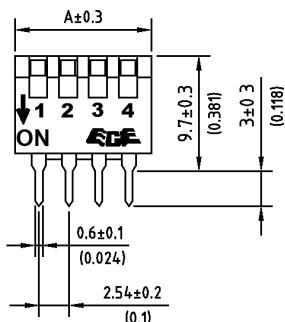
EPG/EPS SPST SERIES



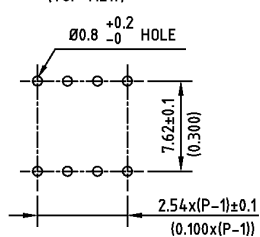
Dimension A

UNIT:mm(inch)

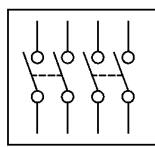
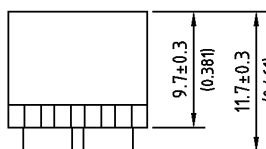
Positions	2	3	4	5	6
A	6.46 (0.254)	9 (0.354)	11.54 (0.454)	14.08 (0.554)	16.62 (0.654)
Positions	7	8	9	10	12
A	19.16 (0.754)	21.7 (0.854)	24.24 (0.954)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



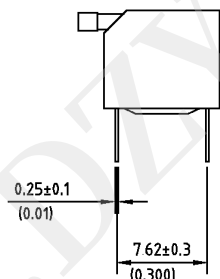
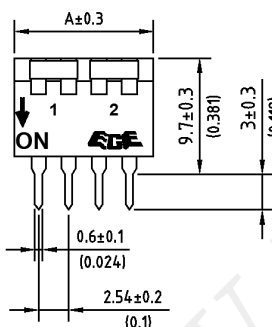
EPG/EPS DPST SERIES



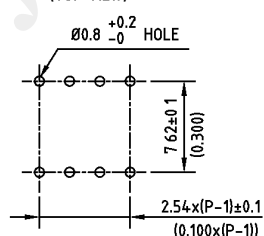
Dimension A

UNIT:mm(inch)

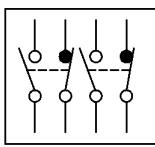
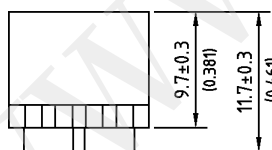
Positions	1	2	3
A	6.46 (0.254)	11.54 (0.454)	16.62 (0.654)
Positions	4	5	6
A	21.7 (0.854)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



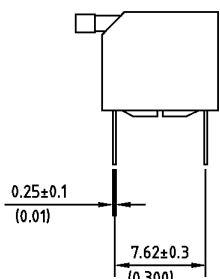
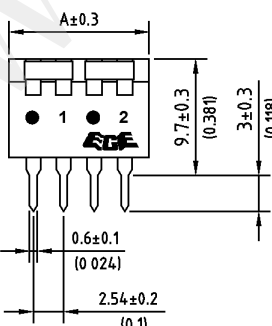
EPG/EPS SPDT SERIES



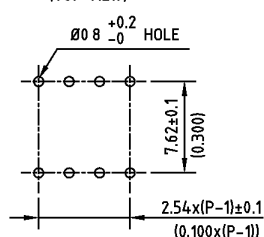
Dimension A

UNIT:mm(inch)

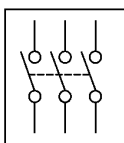
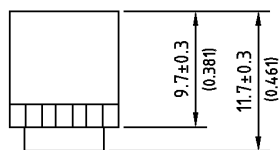
Positions	1	2	3
A	6.46 (0.254)	11.54 (0.454)	16.62 (0.654)
Positions	4	5	6
A	21.7 (0.854)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



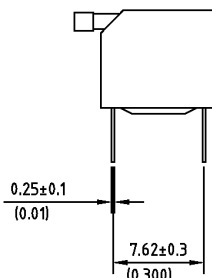
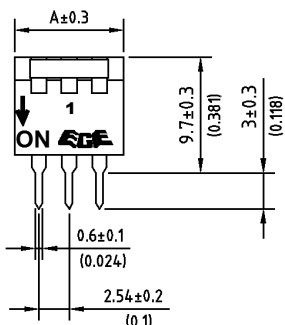
EPG/EPS 3PST SERIES



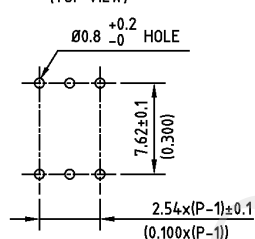
Dimension A

UNIT:mm(inch)

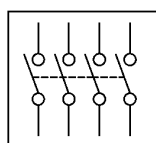
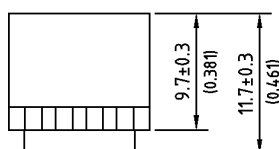
Positions	1	2	3	4
A	9 (0.354)	16.62 (0.654)	24.24 (0.954)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



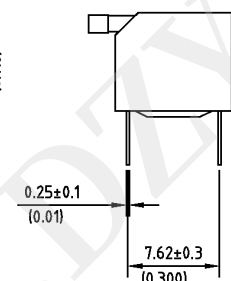
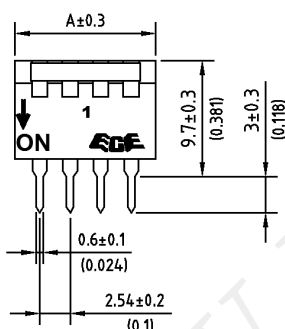
EPG/EPS 4PST SERIES



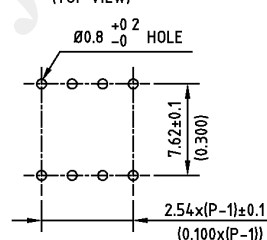
Dimension A

UNIT:mm(inch)

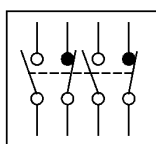
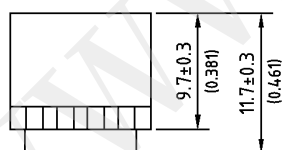
Positions	1	2	3
A	11.54 (0.454)	21.7 (0.854)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



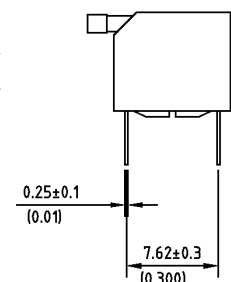
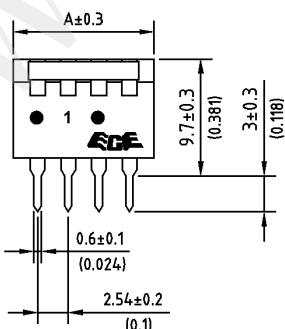
EPG/EPS DPDT SERIES



Dimension A

UNIT:mm(inch)

Positions	1	2	3
A	11.54 (0.454)	21.7 (0.854)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)

