

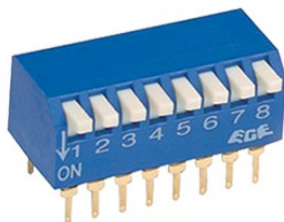


Switch

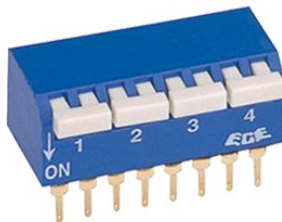
EPH/EPG/EPS SERIES EDGE ACTUATED TYPE



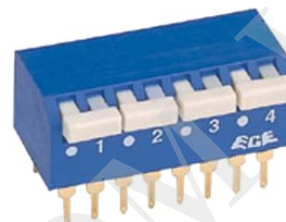
EPH
Housing Height 5mm Only!!



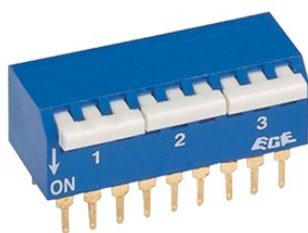
EPG/EPS SPST



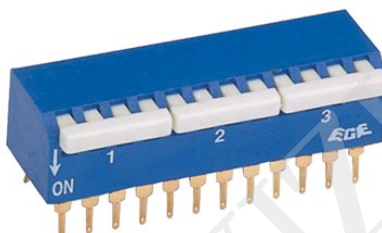
EPG/EPS DPST



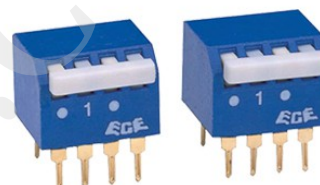
EPG/EPS SPDT



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"

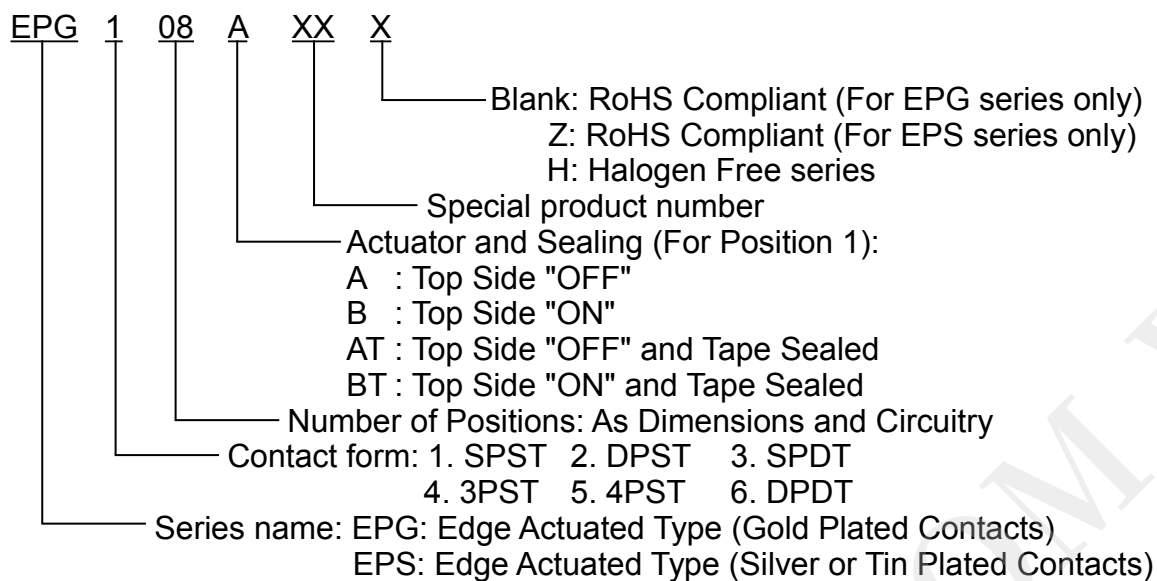
L: Low Profile Actuator and Top Side "OFF"

BE: Extended Actuator and Top Side "ON"

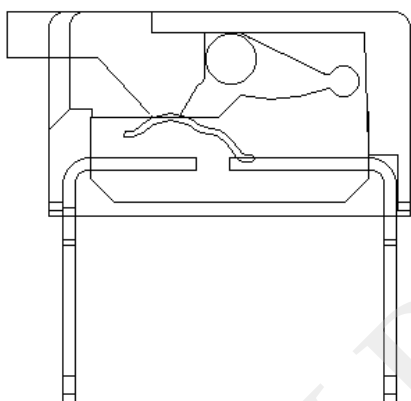
Number of Positions: 2, 3, 4, 5, 6, 8, 10

Contact Form: SPST

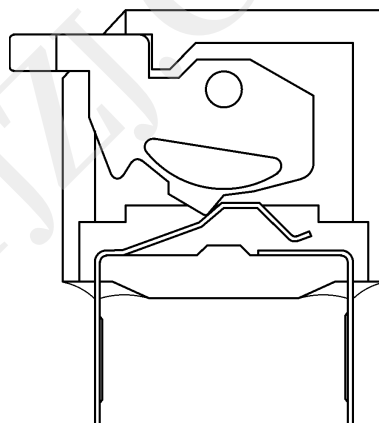
Series Name: EPH: Piano type



CONSTRUCTION



EPH



EPG/EPS

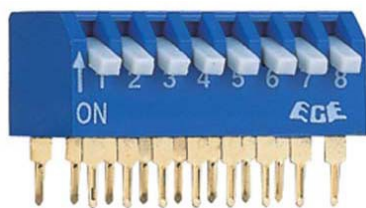
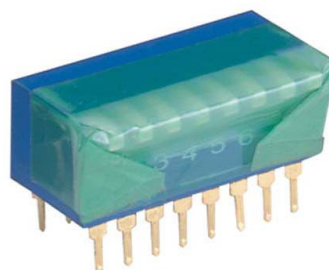
OPTIONS

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

EPHxxxLT

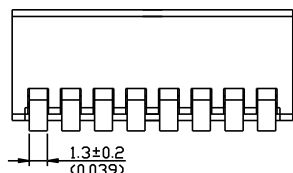


EPGxxxxT

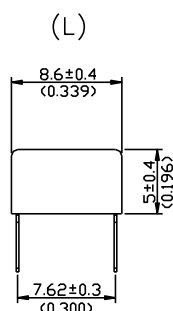
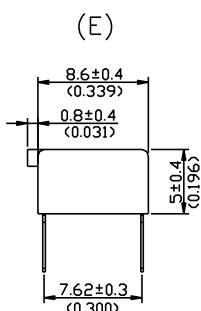
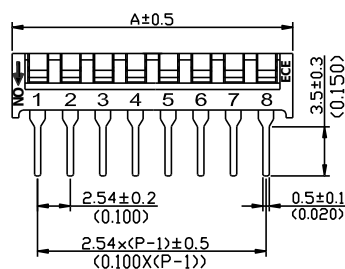


DIMENSIONS AND CIRCUITRY

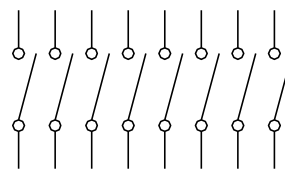
EPH SERIES



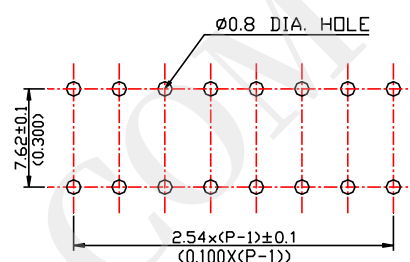
Actuator top side "OFF"



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

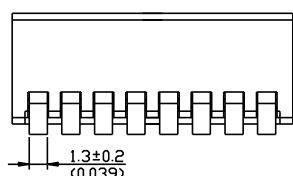


DIMENSION A

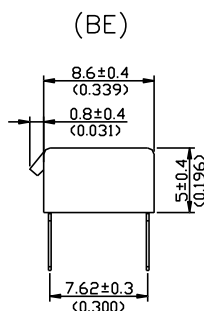
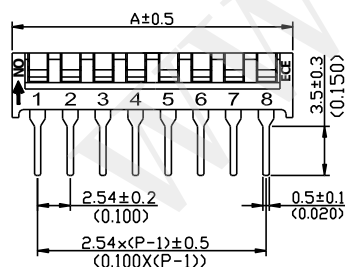
UNIT: mm (inch)

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)

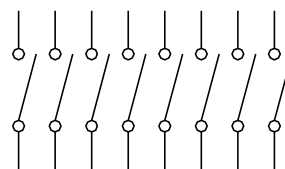
EPH SERIES B TYPE



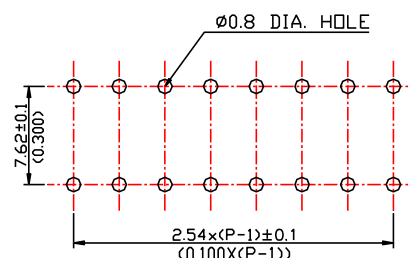
Actuator top side "ON"



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

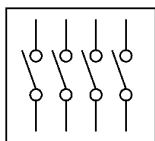
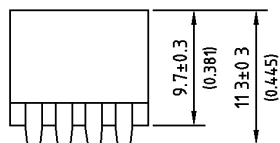


DIMENSION A

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)

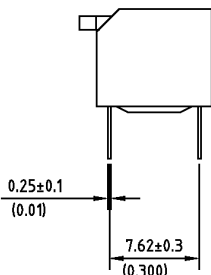
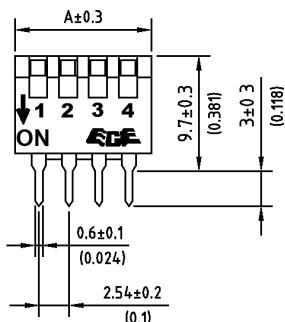
EPG/EPS SPST SERIES



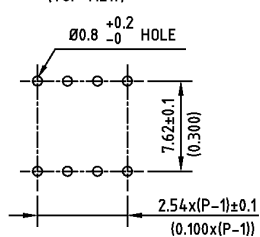
Dimension A

UNIT:mm(inch)

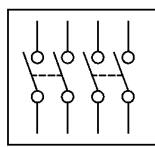
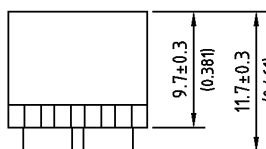
Positions	2	3	4	5	6
A	6.46 (0.254)	9 (0.354)	11.54 (0.454)	14.08 (0.554)	16.62 (0.654)
Positions	7	8	9	10	12
A	19.16 (0.754)	21.7 (0.854)	24.24 (0.954)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



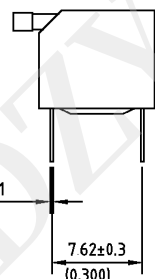
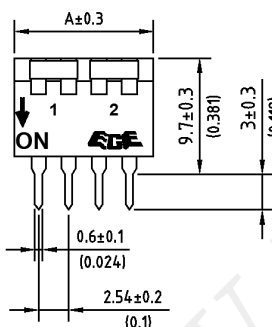
EPG/EPS DPST SERIES



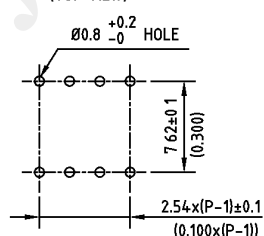
Dimension A

UNIT:mm(inch)

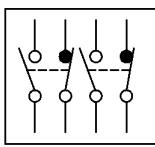
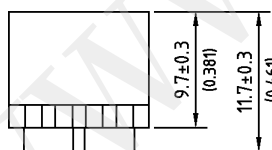
Positions	1	2	3
A	6.46 (0.254)	11.54 (0.454)	16.62 (0.654)
Positions	4	5	6
A	21.7 (0.854)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



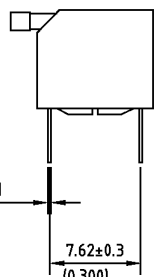
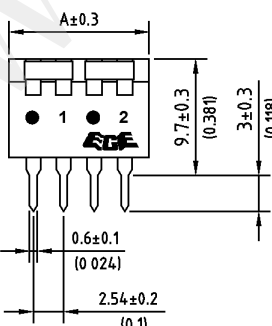
EPG/EPS SPDT SERIES



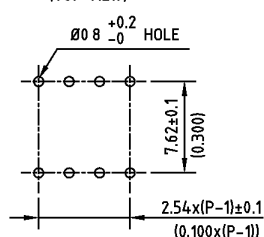
Dimension A

UNIT:mm(inch)

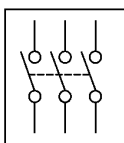
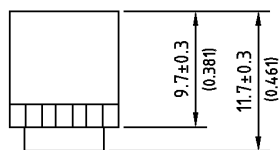
Positions	1	2	3
A	6.46 (0.254)	11.54 (0.454)	16.62 (0.654)
Positions	4	5	6
A	21.7 (0.854)	26.78 (1.054)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



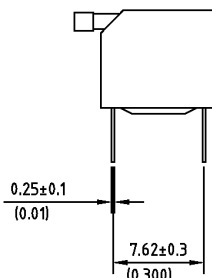
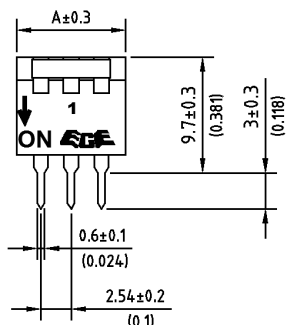
EPG/EPS 3PST SERIES



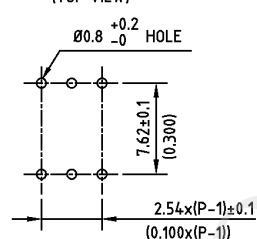
Dimension A

UNIT:mm(inch)

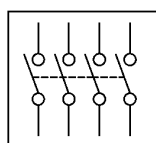
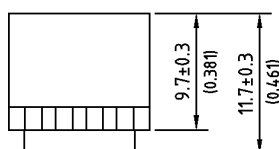
Positions	1	2	3	4
A	9 (0.354)	16.62 (0.654)	24.24 (0.954)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



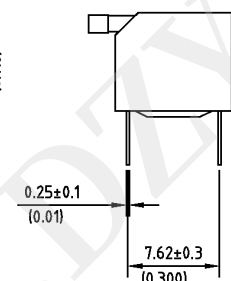
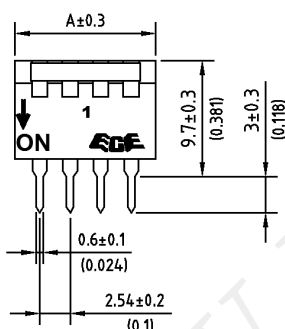
EPG/EPS 4PST SERIES



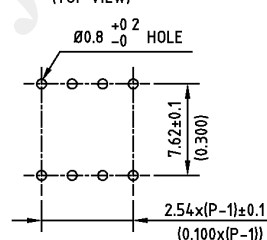
Dimension A

UNIT:mm(inch)

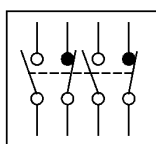
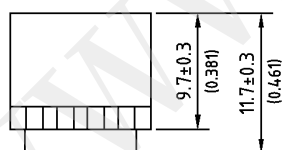
Positions	1	2	3
A	11.54 (0.454)	21.7 (0.854)	31.86 (1.254)



P.C.B. LAYOUT
(TOP VIEW)



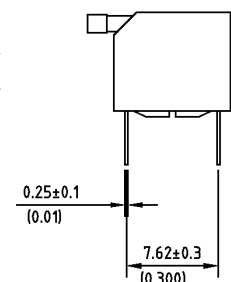
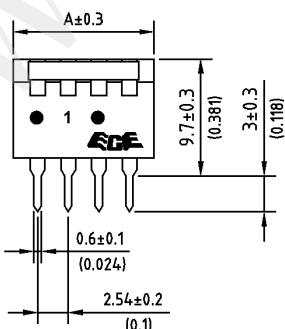
EPG/EPS DPDT SERIES



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)

