






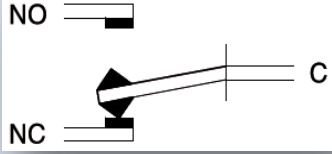
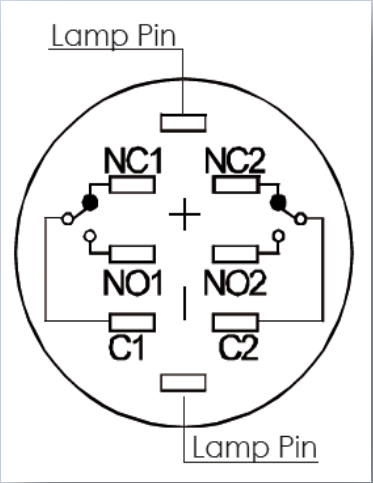
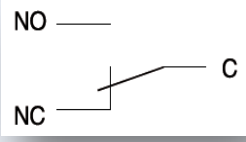



HBS1-A Selector Switch Series mounting hole : Φ 16

Order Code - Configurazione di un modello

Configura un pulsante o un interruttore facendo uso della seguente simbologia :

						
Fronte Front Shape	Contatti Contact configuration	Modalità di funzionamento Operation type	Selezione e terminali	Colore Led color	Volt Led Led voltage	Grado IP Protective Degree
Y : round F : square J : rectangular M : mushroom DF : big square DJ : big rectangle	11 : 1NO 1NC 22 : 2NO 2NC	D : indicator light Z : self-lock button Y : key button X : select button TS : push lock screw button The momentary type is without letter	Indicate selector and Key-lock 2 position --- JC : pin insert terminal	R Red G Green Y Yellow O Orange B Blue W White	6 12 24 110 220	IP40 (IP67) * * Is allowable * Su richiesta

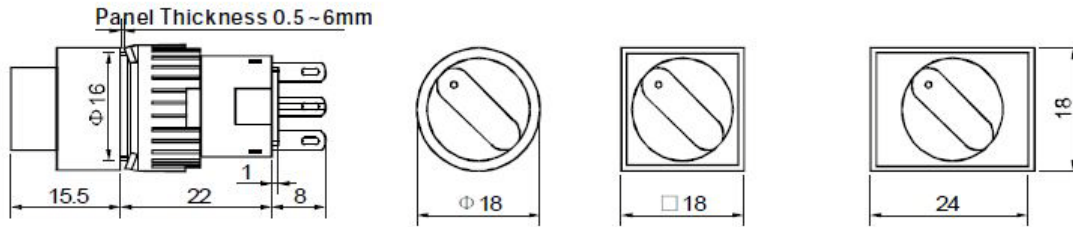
Description - Descrizione	Figura	
Diagramm each single contact Schema elettrico (singolo contatto) Se doppio, il contatto è ripetuto		
Symbol Simbolo		
Nota : Diagramm is referred for one single contact Riferito ad ogni singolo contatto	Can be configured two sets of switches: C1 and C2 (C1 = 11 1NCNO C2 = 22 2NONC) . +/- pins are led terminals Possono essere configurati due serie di contatti C1 singolo e C2 doppio : (C1 = 11 1NONC C2 = 22 2NONC) I terminali +/- appartengono al diodo led.	

LampType	LED lamp(AC/DC)			Lamp Circuit Diagram
LEDColor				
Life	40000hours(Reference)			
RatedVoltage	AC/DC6V	AC/DC12V	AC/DC110V	
	AC/DC24V	AC/DC36V	AC/DC220V	
RatedCurrent	About15mA		About3mA	
Dropping Way	Innerresistance		Outerresistance when using6Vlamp	



Using AC/DC led lamp. Terminals have no difference of anode and cathode.
 Non c'è differenza di polarità ai terminali del led. Collegando una resistenza esterna si può adattare il funzionamento del led ad una tensione superiore : ad esempio il led interno è di 5V. Con una resistenza esterna da 1K il led può funzionare a 12V.

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Shape and Dimensions

Esempio d' ordine

- HBS1AY11XD21G12** Selettore luminoso , flangia rotonda, 2 posizioni 90°, **1 contatto NONC**, colore verde, tensione led 12V
- HBS1AY22XD22R12** Selettore luminoso, flangia rotonda, 2 posizioni 90°, **2 contatti NONC**, colore verde, tensione led 12V
- HBS1AF11X21** Selettore non luminoso, flangia quadra, 2 posizioni 90°, **1 contatto NONC**
- HBS1AF11Y21** Selettore a chiave non luminoso, flangia quadra, 2 posizioni 90°, **1 contatto NONC**



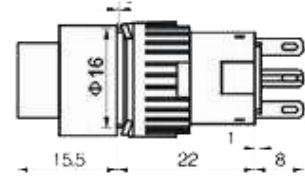
Position	Contact	Operating Position & Contact Operation		
		Left	Center	Right
90° 2 Position	IC		/	
	2C		/	
45° 3 Position	2C			

HBS1-A Selector Switch Series mounting hole : $\Phi 16$



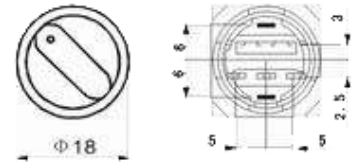
HBS1AY11X21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



HBS1AY11XD21 ▲ ▲

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Illuminated R/G/Y/O/B/W
- Operating 90° 2 Position



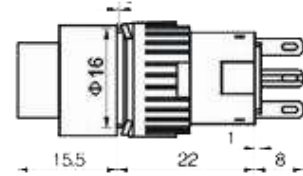
	HBS1AY11X21	HBS1AY11XD21 ▲ ▲	
Terminal Type	Pin Terminal (2.8 x 0.5mm)	Pin Terminal (2.8 x 0.5mm)	
Switch specifications PF=1	Ith: 5A / Ui: 250VAC1	Ith: 5A / Ui: 250VAC1	
Contact Resistance (mΩ)	≤ 50	≤ 50	
Insulation Resistance (MΩ)	≥ 100	≥ 100	
Dielectric Strength (VAC)	2000	2000	
Operating Temperature	-25°C ~ +55°C	-20°C ~ +55°C	
Mechanical Life (times)	> 1.000.000	> 1.000.000	
Electrical Life (times)	> 30.000	> 30.000	
Panel Thickness (mm)	1 ~ 6	1 ~ 6	
Torque (Nm)	5 ~ 14	5 ~ 14	
Operating Pressure (N)	about 0,3	about 0,3	
Protection Degree	IP40 (IP65)	IP40 (IP65)	
Contact	Silver CdO	Silver CdO	Material
Button	Key lock - Selector	Key lock - Selector	
Case	Plastic	Plastic	
Base	PBT	PBT	
Rated Voltage (V)		6/12/24/110/220	Lamp Parameter
Color		R G Y O B W	

HBS1-A Selector Switch Series mounting hole : Φ 16



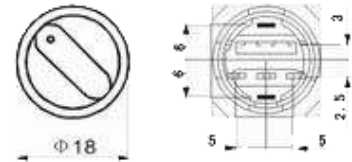
HBS1AF11X21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



HBS1AJ11X21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



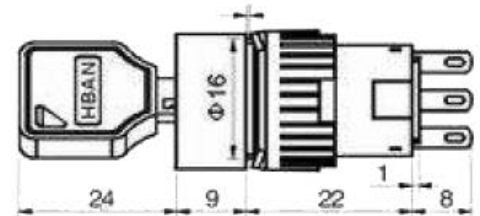
	HBS1AF11X21	HBS1AJ11X21	
Terminal Type	Pin Terminal (2.8 x 0.5mm)	Pin Terminal (2.8 x 0.5mm)	
Switch specifications PF=1	Ith: 5A / Ui: 250VAC1	Ith: 5A / Ui: 250VAC1	
Contact Resistance (mΩ)	≤ 50	≤ 50	
Insulation Resistance (MΩ)	≥ 100	≥ 100	
Dielectric Strength (VAC)	2000	2000	
Operating Temperature	-25°C ~ +55°C	-20°C ~ +55°C	
Mechanical Life (times)	> 1.000.000	> 1.000.000	
Electrical Life (times)	> 30.000	> 30.000	
Panel Thickness (mm)	1 ~ 6	1 ~ 6	
Torque (Nm)	5 ~ 14	5 ~ 14	
Operating Pressure (N)	about 0,3	about 0,3	
Protection Degree	IP40 (IP65)	IP40 (IP65)	
Contact	Silver CdO	Silver CdO	Material
Button	Key lock - Selector	Key lock - Selector	
Case	Plastic	Plastic	
Base	PBT	PBT	
Rated Voltage (V)		6/12/24/110/220	

HBS1-A Key Selector switch mounting hole : $\Phi 16$



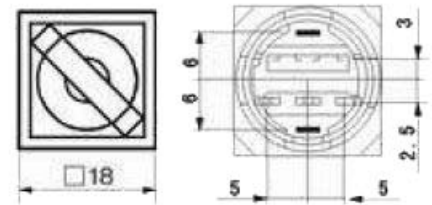
HBS1AY11Y21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



HBS1AF11Y21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



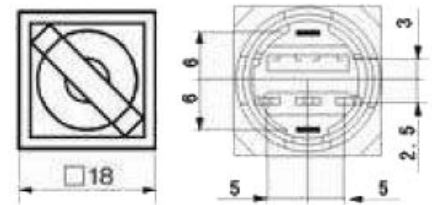
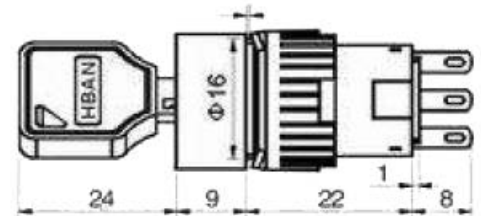
	HBS1AY11Y21	HBS1AF11F21	Material
Terminal Type	Pin Terminal (2.8 x 0.5mm)	Pin Terminal (2.8 x 0.5mm)	
Switch specifications PF=1	Ith: 5A / Ui: 250VAC1	Ith: 5A / Ui: 250VAC1	
Contact Resistance (mΩ)	≤ 50	≤ 50	
Insulation Resistance (MΩ)	≥ 100	≥ 100	
Dielectric Strength (VAC)	2000	2000	
Operating Temperature	-25°C ~ +55°C	-20°C ~ +55°C	
Mechanical Life (times)	> 1.000.000	> 1.000.000	
Electrical Life (times)	> 30.000	> 30.000	
Panel Thickness (mm)	1 ~ 6	1 ~ 6	
Torque (Nm)	5 ~ 14	5 ~ 14	
Operating Pressure (N)	about 0,3	about 0,3	
Protection Degree	IP40 (IP65)	IP40 (IP65)	
Contact	Silver CdO	Silver CdO	
Button	Key lock - Selector	Key lock - Selector	
Case	Plastic	Plastic	
Base	PBT	PBT	
Rated Voltage (V)		6/12/24/110/220	

HBS1-A Key Selector switch mounting hole : $\Phi 16$



HBS1AJ11J21

- Mounting hole size : 16mm
- Switch rating : 5A 250Vac1
- Contact configuration : 1 x NONC 2 x NONC
- Operation type : Latching
- The crust material : Plastic
- Protection degree : IP40
- Operating 90° 2 Position



	HBS1AJ11J21	
Terminal Type	Pin Terminal (2.8 x 0.5mm)	
Switch specifications PF=1	Ith: 5A / Ui: 250VAC1	
Contact Resistance (m Ω)	≤ 50	
Insulation Resistance (M Ω)	≥ 100	
Dielectric Strength (VAC)	2000	
Operating Temperature	-25°C ~ +55°C	
Mechanical Life (times)	> 1.000.000	
Electrical Life (times)	> 30.000	
Panel Thickness (mm)	1 ~ 6	
Torque (Nm)	5 ~ 14	
Operating Pressure (N)	about 0,3	
Protection Degree	IP40 (IP65)	
Contact	Silver CdO	Material
Button	Key lock - Selector	
Case	Plastic	
Base	PBT	
Rated Voltage (V)		