



Ø16mm Push-Buttons & Indicators

1. Ø16mm Push-Button Switch (LED-Lighted and Non-Lighted)



F1=18x24mm



F2=18x24mm



F3=Ø18mm

2. Ø16mm LED Pilot Light



F1=18x24mm



F2=18x24mm



F3=Ø18mm

3. Ø16mm Mushroom Push-Button Switches (LED-Lighted and Non-Lighted)



F1=18x24mm



F2=18x24mm



F3=Ø18mm

4. Ø16mm Panel Mount Buzzers



F1=18x24mm



F2=18x24mm



F3=Ø18mm

5. Ø16mm Selector Switches (LED-Lighted and Non-Lighted)



F1=18x24mm



F2=18x24mm



F3=Ø18mm

6. Ø16mm Key-Lock Selectors



F1=18x24mm



F2=18x24mm



F3=Ø18mm

7. Accessories

Accessories and spare parts and mounting tools etc. for our 16mm range of Push-button switches are also available. Contact us for accessory, spare part and mounting tool catalogue.



SOLITRONICS ENGINEERING LTD.

2202, Perfect Industrial Bldg. 31, Tai Yau St. San Po Kong Kowloon Hong Kong

TEL : (852) 2730-8145

FAX : (852) 2730-3245

E-mail : info@solitronics.com

Ø16mm LED Push Button Switches

Date:

13th Nov. 2009

Group:

SE-16D

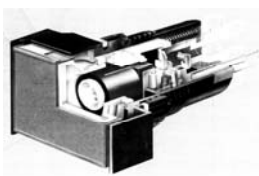
Part Number:

SE-16D-PBXX-XX-FX-X-XX

Data Sheet:

SE-16D-PB

IEC-60947 GB-14048.5 IP40 (IP65 with Seal Cap)



18x24mm
Pictorial Section View



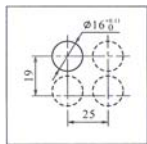
18x24mm
Form-1



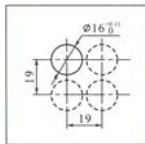
18x18mm
Form-2



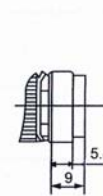
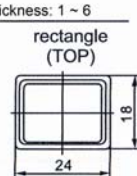
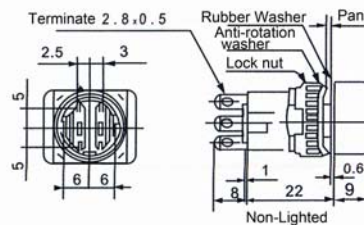
Ø18mm
Form-3


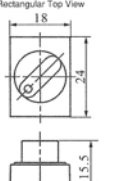






Drilling Plan
for Form-1



Drilling Plan
for Form-2&3



Product	Style	Working Manner	Contact	Type	Color	Lamp Voltage	Outline Dimensions (mm)
18x24mm Pushbutton		Momentary	11	SE-16D-PB11-XM-F1	R=Red G=Green Y=Yellow B=Blue W=White K=Black	00=No Lamp 21=6V AC/DC 22=12V AC/DC 23=24V AC/DC 26=110V AC/DC 28=220V DC only 31=220V AC only	  
			Maintained	11			
		Momentary		22			
			Maintained	22			
18x18mm Pushbutton		Momentary		11			SE-16D-PB11-XM-F2
			Maintained	11			SE-16D-PB11-XT-F2
		Momentary		22			SE-16D-PB22-XM-F2
			Maintained	22			SE-16D-PB22-XT-F2
18mmØ Pushbutton		Momentary		11	SE-16D-PB11-XM-F3		
			Maintained	11	SE-16D-PB11-XT-F3		
		Momentary		22	SE-16D-PB22-XM-F3		
			Maintained	22	SE-16D-PB22-XT-F3		

Ordering Code: SE-16D-PBXX-XX-FX-X-XX

SE-16D-PB XX - XX - FX - X - XX

11=1NO+1NC
22=2NO+2NC

NM=Non-Lighted Momentary
NT=Non-Lighted Maintained
DM=LED Lighted Momentary
DT=LED Lighted Maintained

F1=18x24mm
F2=18x18mm
F3=Ø18mm

R=Red
G=Green
Y=Yellow
B=Blue
W=White
K=Black

00=No Lamp
21=6V AC/DC
22=12V AC/DC
23=24V AC/DC
26=110V AC/DC
28=220V DC only
31=220V AC only

Technical Parameters

Environmental Temperature	-25°C ~ +55°C	Electrical Life	AC-15 = 100x10 ³ Times DC-13 = 50x10 ³ Times	Voltage	AC-15	DC-14
Humidity	45 ~ 85%RH			24V	2.0A	0.7A
Contact Resistance	≤ 50mΩ	Protection Level	IP40 (IP65 with seal cap)	110V	1.0A	0.2A
Insulation Resistance	≥ 100MΩ	Operational Travel	1.5 ~ 2.0mm	220V	0.5A	0.1A
Withstand Voltage	> 200VAC					

Note: Due to continuous development all specifications and availability are subject to change without prior notice. Please confirm all details at time of ordering.



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TEL : (852) 2730-8145

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E-mail : info@solitronics.com

Ø16mm LED Pilot Light

Date:

13th Nov. 2009

Group:

SE-16D

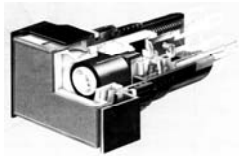
Part Number:

SE-16D-PL-FX-X-XX

Data Sheet:

SE-16D-PL

IEC-60947 GB-14048.5 IP40 (IP65 with Seal Cap)



18x24mm
Pictorial Section View



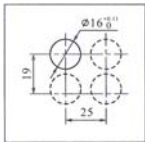
18x24mm
Form-1



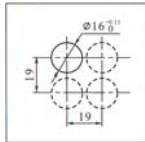
18x18mm
Form-2



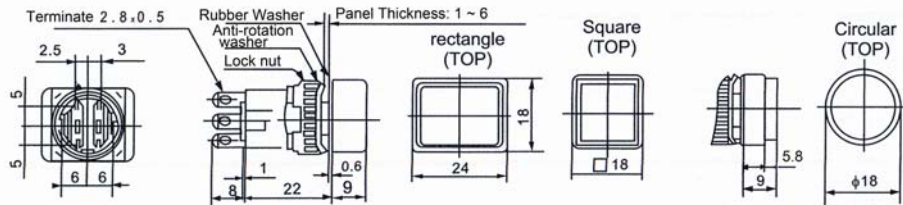
Ø18mm
Form-3


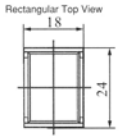


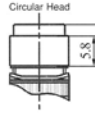
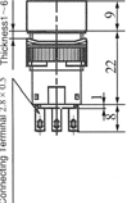




Drilling Plan
for Form-1



Drilling Plan
for Form-2&3



Product	Style	Type	Color	Lamp Voltage	Outline Dimensions (mm)
18x24mm Pilot Light	 Form-1	SE-16D-PL-F1	R=Red G=Green Y=Yellow B=Blue W=White K=Black	00=No Lamp 21=6V AC/DC 22=12V AC/DC 23=24V AC/DC 26=110V AC/DC 28=220V DC only 31=220V AC only	    
18x18mm Pilot Light	 Form-2	SE-16D-PL-F2			
18mmØ Pilot Light	 Form-3	SE-16D-PL-F3			

Ordering Code: SE-16D-PL-FX-X-XX

SE-16D-PL - - -

F1=18x24mm
F2=18x18mm
F3=Ø18mm

R=Red
G=Green
Y=Yellow
B=Blue
W=White
K=Black

00=No Lamp
21=6V AC/DC
22=12V AC/DC
23=24V AC/DC
26=110V AC/DC
28=220V DC only
31=220V AC only

Technical Parameters

Environmental Temperature	-25°C ~ +55°C	Electrical Life	AC-15 = 100x10 ³ Times DC-13 = 50x10 ³ Times	Voltage	AC-15	DC-14
Humidity	45 ~ 85%RH			24V	2.0A	0.7A
Contact Resistance	≤ 50mΩ	Protection Level	IP40 (IP65 with seal cap)	110V	1.0A	0.2A
Insulation Resistance	≥ 100MΩ	Operational Travel	1.5 ~ 2.0mm	220V	0.5A	0.1A
Withstand Voltage	> 200VAC					

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E-mail : info@solitronics.com

Ø16mm Mushroom Push-button (LED-Lighted and Non-Lighted)

Date:

13th Nov. 2009

Group:

SE-16D

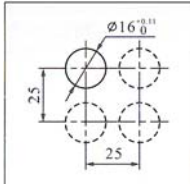
Part Number:

SE-16D-MRXX-XX-FX-X-XX

Data Sheet:

SE-16D-MR

IEC-60947 GB-14048.5 IP40



Emergency Stop
(Form 1)


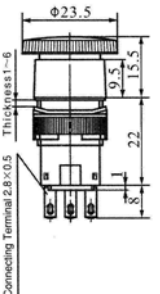




Mushroom
(Form 2)



Lighted Mushroom
(Form 3)



Product	Style	Working Manner	Contact	Type	Color	Lamp Voltage	Outline Dimensions (mm)
Emergency- Stop Mushroom Push-button (Non-Lighted)	 Form 1	Push-On (Maintained) Turn-clockwise to release	11	SE-16D-MR11-NT-F1	R=Red	00=No Lamp	 Thickness 1-6 Connecting Terminal 2.8x0.5
			22	SE-16D-MR22-NT-F1			
Mushroom Push-button (Non-Lighted)	 Form 2	Momentary	11	SE-16D-MR11-NM-F2	R=Red G=Green Y=Yellow B=Blue W=White K=Black	00=No Lamp	
			22	SE-16D-MR22-NM-F2			
		Maintained	11	SE-16D-MR11-NT-F2			
			22	SE-16D-MR22-NT-F2			
Lighted Mushroom Push-button	 Form 3	Momentary	11	SE-16D-MR11-DM-F3	R=Red G=Green Y=Yellow B=Blue W=White	21=6V AC/DC 22=12V AC/DC 23=24V AC/DC 26=110V AC/DC 28=220V DC only 31=220V AC only	
			22	SE-16D-MR22-DM-F3			
		Maintained	11	SE-16D-MR11-DT-F3			
			22	SE-16D-MR22-DT-F3			

Ordering Code: SE-16D-MRXX-XX-FX-X-XX

SE-16D-MR	XX	-	XX	-	FX	-	X	-	XX
	11=1NO+1NC 22=2NO+2NC		NM=Non-Lighted Momentary NT=Non-Lighted Maintained DM=LED Lighted Momentary DT=LED Lighted Maintained		F1= Emergency Stop Push-button F2= Mushroom Push-button F3= Light Mushroom Push-button		R=Red G=Green Y=Yellow B=Blue W=White K=Black		00=No Lamp 21=6V AC/DC 22=12V AC/DC 23=24V AC/DC 26=110V AC/DC 28=220V DC only 31=220V AC only

Technical Parameters

Environmental Temperature	-25°C ~ +55°C	Electrical Life	AC-15 = 100x10 ³ Times DC-13 = 50x10 ³ Times	Voltage	AC-15	DC-14
Humidity	45 ~ 85%RH	Protection Level	IP40 (IP65 with seal cap)	24V	2.0A	0.7A
Contact Resistance	≤ 50mΩ	Operational Travel	1.5 ~ 2.0mm	110V	1.0A	0.2A
Insulation Resistance	≥ 100MΩ			220V	0.5A	0.1A
Withstand Voltage	> 2000VAC					

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TEL : (852) 2730-8145
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Ø16mm Panel Mount Buzzer

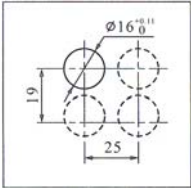
Date:
13th Nov. 2009

Group:
SE-16D

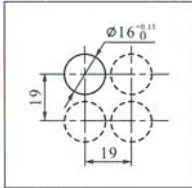
Part Number:
SE-16D-BZ-FX-XX-X

Data Sheet:
SE-16D-BZ

IEC-60947 GB-14048.5



Drilling Plan for Form-1



Drilling Plan for Form-2&3



18x24mm Form 1



18x18mm Form 2

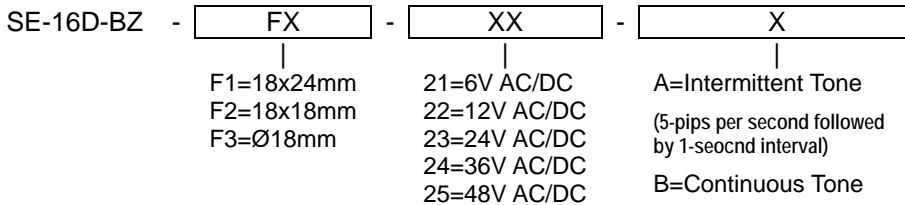


Ø18mm Form 3



Product	Style	Type	Voltage	Sound Type	Rated Volume and Frequency	Outline Dimensions (mm)
18x24mm Buzzer	 Form-1	SE-16D-BZ-F1	21=6V AC/DC 22=12V AC/DC 23=24V AC/DC 24=36V AC/DC 25=48V AC/DC	A=Intermittent (5-pips per second followed by 1-second interval) B=Continuous	80dB at a distance of 10cm at rated voltage 2300Hz ± 400Hz	 Connecting Terminal 2.3 x 0.5 (Thickness) - 6 Square Top View: 18mm x 24mm Round Top View: Ø18mm Rectangular Top View: 18mm x 24mm
18x18mm Buzzer	 Form-2	SE-16D-BZ-F2				
18mmØ Buzzer	 Form-3	SE-16D-BZ-F3				

Ordering Code: SE-16D-BZ-FX-XX-X



Remarks:

As of 1st of Jan. 2008, the 2.8mm solder-terminals are now changed to "Direct PCB terminal for soldering"

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 E-mail : info@solitronics.com

Ø16mm LED Selector Switches

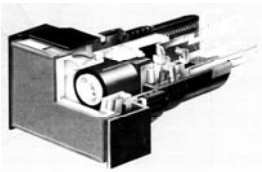
Date:
13th Nov. 2009

Group:
SE-16D

Part Number:
SE-16D-SSXX-NX-FX-X-XX

Data Sheet:
SE-16D-SS

IEC-60947 GB-14048.5 IP40



18x24mm Pictorial Section View



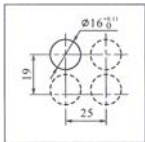
18x24mm Form-1



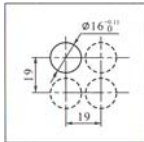
18x18mm Form-2



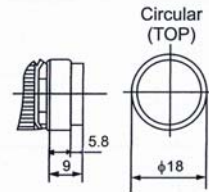
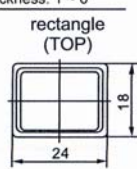
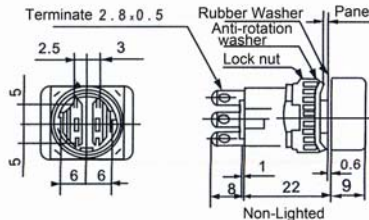
Ø18mm Form-3



Drilling Plan for Form-1



Drilling Plan for Form-2&3



Product	Style	Working Manner	Contact	Type	Color	Lamp Voltage	Outline Dimensions (mm)
18x24mm Selector Button	Form-1	 2-pos. maintained 90°	11	SE-16D-SS11-N2-F1	Non-Lighted R=Red G=Green K=Black	00=No Lamp	
			22	SE-16D-SS22-N2-F1			
		 45° 45° 3-pos. maintained	11	Not Available			
			22	SE-16D-SS22-N3-F1			
18x18mm Selector Button	Form-2	 2-pos. maintained 90°	11	SE-16D-SS11-N2-F2			
			22	SE-16D-SS22-N2-F2			
		 45° 45° 3-pos. maintained	11	Not Available			
			22	SE-16D-SS22-N3-F2			
Ø18mm Selector Button	Form-3	 2-pos. maintained 90°	11	SE-16D-SS11-N2-F3			
			22	SE-16D-SS22-N2-F3			
		 45° 45° 3-pos. maintained	11	Not Available			
			22	SE-16D-SS22-N3-F3			

Ordering Code (16-digits): SE-16D-SSXX-NX-FX-X-XX

SE-16D-SS **XX** - **NX** - **FX** - **X** - **XX**

11=1NO+1NC
 22=2NO+2NC

N2=Non-Lighted 2-Pos. Maintained
 N3=Non-Lighted 3-Pos. Maintained

F1=18x24mm
 F2=18x18mm
 F3=Ø18mm

R=Red
 G=Green
 K=Black

00=No Lamp

Note:
 3-position Selector-switches are available with 2NO+2NC only

Technical Parameters

Environmental Temperature	-25°C ~ +55°C	Electrical Life	AC-15 = 100x10 ³ Times	Voltage	AC-15	DC-14
Humidity	45 ~ 85%RH		DC-13 = 50x10 ³ Times			
Contact Resistance	≤ 50mΩ	Protection Level	IP40 (IP65 with seal cap)	110V	1.0A	0.2A
Insulation Resistance	≥ 100MΩ	Operational Travel	1.5 ~ 2.0mm	220V	0.5A	0.1A
Withstand Voltage	> 200VAC					

Note: Due to continuous development all specifications are subject to change without prior notice. Please confirm all technical & other details at time of ordering.



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 E-mail : info@solitronics.com

Ø16mm Key Lock Selectors

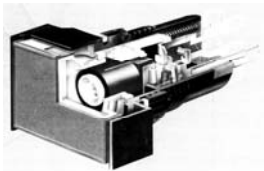
Date:
 13th Nov. 2009

Group:
 SE-16D

Part Number:
 SE-16D-KSXX-X-FX-K-X

Data Sheet:
 SE-16D-KS

IEC-60947 GB-14048.5 IP40



18x24mm
 Pictorial Sectional View



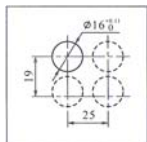
18x24mm
 Form-1



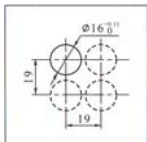
18x18mm
 Form-2



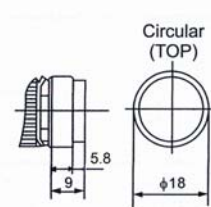
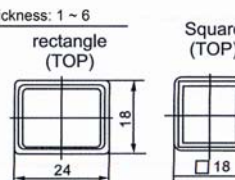
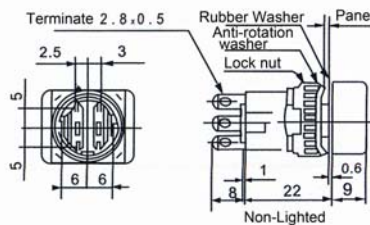
Ø18mm
 Form-3



Drilling Plan
 for Form-1

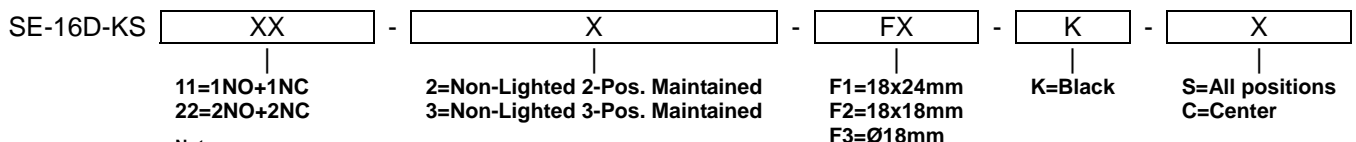


Drilling Plan
 for Form-2&3



Product	Style	Working Manner	Contact	Type	Color	Key Removable Position	Outline Dimensions (mm)
18x24mm Turn Button	Form-1		11	SE-16D-KS11-2-F1	K=Black	For 2-Position Selector Switch:- S=Standard (L+R) = Key withdrawal at both positions. For 3-Position Selector Switch:- a) S=Standard (L+R+C) = Key withdrawal at all positions b) C = Key withdrawal at Center Position Note: Key withdrawal at C=Left, C=Center or R=Right on special request.	
			22	SE-16D-KS22-2-F1			
			11	Not available			
			22	SE-16D-KS22-3-F1			
18x18mm Turn Button	Form-2		11	SE-16D-KS11-2-F2			
			22	SE-16D-KS22-2-F2			
			11	Not Available			
			22	SE-16D-KS22-3-F2			
18mmØ Turn Button	Form-3		11	SE-16D-KS11-2-F3			
			22	SE-16D-KS22-2-F3			
			11	Not available			
			22	SE-16D-KS22-3-F3			

Ordering Code: SE-16D-KSXX-X-FX-K-X



Technical Parameters

Environmental Temperature	-25°C ~ +55°C	Electrical Life	AC-15 = 100x10 ³ Times DC-13 = 50x10 ³ Times	Voltage	AC-15 24V DC-14 0.7A
Humidity	45 ~ 85%RH	Protection Level	IP40 (IP65 with seal cap)	110V 1.0A	0.2A
Contact Resistance	≤ 50mΩ	Operational Travel	1.5 ~ 2.0mm	220V 0.5A	0.1A
Insulation Resistance	≥ 100MΩ				
Withstand Voltage	> 200VAC				

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