



**16mmØ Push-Buttons & Selector Switches (HF & HM Series)**

**HF Compact Series**

**1. 16mmØ Push-Button Switches (LED-Lighted and Non-Lighted)**



Form 1



Form 2



Form 3

**2. 16mmØ Pilot Lights (LED-Lighted)**



Form 1



Form 2



Form 3

**3. 16mmØ Mushroom Push-Button Switches (LED-Lighted and Non-Lighted)**



Form 1



Form 2

**4. 16mmØ New Look Push-Button Switches (LED-Lighted and Non-Lighted)**



Form 4



Form 5

**5. 16mmØ Selector Switches (Non-Lighted)**



Form 1



Form 2



Form 3

**6. 16mmØ Key-Lock Selector-switch (Non-Lighted)**



Form 1



Form 2



Form 3

**HM Hi-Tech Look Series**

**7. 16mmØ Push-Button Switches (LED-Lighted and Non-Lighted)**



Form 2



Form 3

**8. 16mmØ Pilot Lights (LED-Lighted)**



Form 2



Form 3

**9. 16mmØ Selector Switches (Non-Lighted)**



Form 2



Form 3

**10. 16mmØ Key-Lock Selector-switch (Non-Lighted)**



Form 2



Form 3



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## 16mmØ COMPACT HF SERIES Push-button Switches (LED-Lighted and Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
**SE-16DHF**

Part Number:  
**SE-16DHF-PBXX-XX-XX-X-XX**

Data Sheet:  
**SE-16DHF-PB**

**IP40 & IP65**



**Flexible Modular Design**



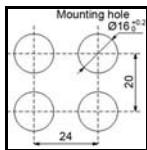
**18x24mm  
Form-1**



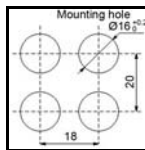
**18x18mm  
Form-2**



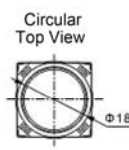
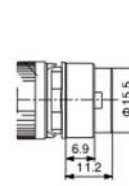
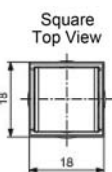
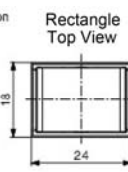
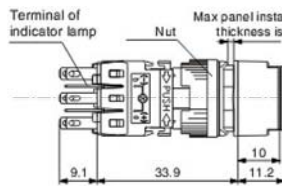
**18mmØ  
Form-3**


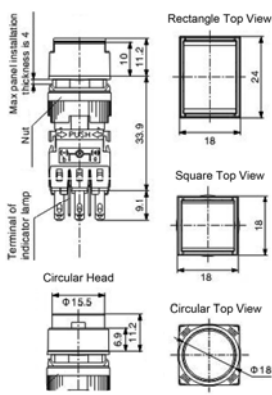




**Drilling Plan  
for Form-1**



**Drilling Plan  
for Form-2&3**



Product	Style	Working Manner	Contact	Type	Color	LED Lamp Voltage	Protection	Outline Dimensions (mm)
18x24mm Push-button		Momentary	11	SE-16DHF-PB11-XM-F1	R=Red G=Green Y=Yellow B=Blue W=White  K=Black (non-Lighted only)	00=No Lamp 21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65	
			22	SE-16DHF-PB22-XM-F1				
			33	SE-16DHF-PB33-XM-F1				
		Maintained	11	SE-16DHF-PB11-XT-F1				
			22	SE-16DHF-PB22-XT-F1				
18x18mm Push-button		Momentary	11	SE-16DHF-PB11-XM-F2				
			22	SE-16DHF-PB22-XM-F2				
			33	SE-16DHF-PB33-XM-F2				
		Maintained	11	SE-16DHF-PB11-XT-F2				
			22	SE-16DHF-PB22-XT-F2				
18mmØ Push-button		Momentary	11	SE-16DHF-PB11-XM-F3				
			22	SE-16DHF-PB22-XM-F3				
			33	SE-16DHF-PB33-XM-F3				
		Maintained	11	SE-16DHF-PB11-XT-F3				
			22	SE-16DHF-PB22-XT-F3				
			33	SE-16DHF-PB33-XT-F3				

**Ordering Code:** SE-16DHF-PBXX-XY-XX-X-XXY e.g. SE-16DHF-PB33-DT-F1-R-23F

SE-16DHF-PB	Contact XX	-	Configuration XY	-	Form XX	-	Colour X	-	LED Voltage XX	-	Protection Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC		NM=Non-Lighted Momentary NT=Non-Lighted Maintained DM=LED Lighted Momentary DT=LED Lighted Maintained		F1=18x24mm F2=18x18mm F3=18Ømm		R=Red G=Green Y=Yellow B=Blue W=White K=Black		00=No Lamp 21=6V DC 22=12V DC 23=24V DC		B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ		25x10 <sup>4</sup> Times (Maintained)	24V	-	1.0A
Insulation Resistance	≥ 100MΩ	Protection Level	IP40 or IP65	125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-



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## 16mmØ COMPACT HF SERIES Pilot Lights (LED-Lighted)

Date:  
**25<sup>th</sup> May 2007**

Group:  
**SE-16DHF**

Part Number:  
**SE-16DHF-PBXX-XX-XX-X-XX**

Data Sheet:  
**SE-16DHF-PL**

**IP40 & IP65**



Illustration of Flexible Modules  
(Push Button Switch)



**18x24mm  
Form-1**

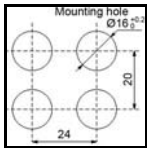


**18x18mm  
Form-2**

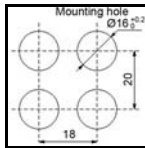


**18mmØ  
Form-3**

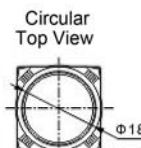
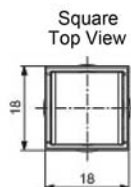
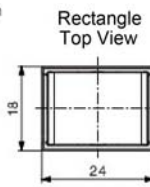
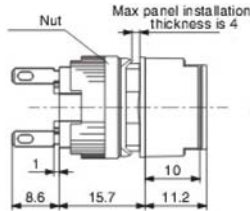
### Flexible Modular Design


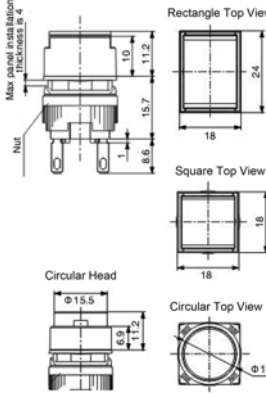




Drilling Plan  
for Form-1



Drilling Plan  
for Form-2&3



Product	Style	Type	Color	LED Lamp Voltage	Protection	Outline Dimensions (mm)
18x24mm Push-button	 Form-1	SE-16DHF-PL-F1	R=Red G=Green Y=Yellow B=Blue W=White	21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65	
18x18mm Push-button	 Form-2	SE-16DHF-PL-F2				
18mmØ Push-button	 Form-3	SE-16DHF-PL-F3				

**Ordering Code:** SE-16DHF-PL-XX-X-XXY e.g. SE-16DHF-PL-F1-R-23F

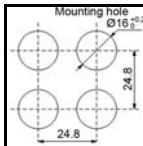
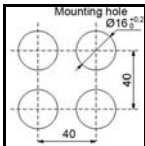
SE-16DHF-PL	-	Form XX	-	Colour X	-	LED Voltage XX	-	Protection Y
		F1=18x24mm F2=18x18mm F3=18Ømm		R=Red G=Green Y=Yellow B=Blue W=White K=Black		21=6V DC 22=12V DC 23=24V DC		B=IP40 F=IP65


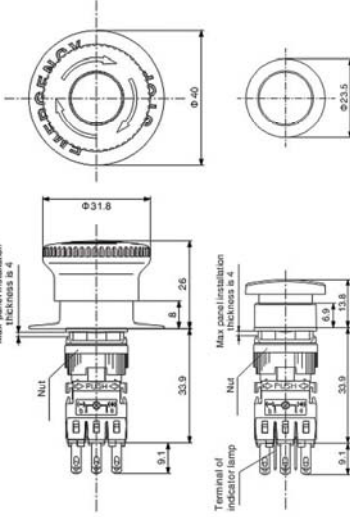

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)
Humidity	45 ~ 85%RH	Protection Level	IP40 or IP65
Contact Resistance	≤ 200mΩ		
Insulation Resistance	≥ 100MΩ		
Withstand Voltage	> 2000VAC		



## 16mmØ COMPACT HF SERIES Mushroom Push-buttons (LED-Lighted and Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**Group:  
**SE-16DHF**Part Number:  
**SE-16DHF-MRXX-XX-XX-X-XX**Data Sheet:  
**SE-16DHF-MR****IP40 & IP65**Illustration of Flexible Modules  
(Push Button Switch)**Emergency Stop  
Form-1****Mushroom  
Form-2****Flexible Modular Design****Drilling Plan  
for Form-1****Drilling Plan  
for Form-2**

Product	Style	Working Manner	Contact	Type	Color	LED Lamp Voltage	Protection	Outline Dimensions (mm)	
Emergency Stop Push-button	 Form-1	Push to maintain	11	SE-16DHF-MR11-XT-F1	R=Red	00=No Lamp	B=IP40 F=IP65		
			22	SE-16DHF-MR22-XT-F1					
		33	SE-16DHF-MR33-XT-F1						
Mushroom Push-button	 Form-2	Momentary	11	SE-16DHF-MR11-XM-F2	R=Red G=Green Y=Yellow B=Blue W=White	00=No Lamp 21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65		
			22	SE-16DHF-MR22-XM-F2					
			33	SE-16DHF-MR33-XM-F2					
		Maintained	11	SE-16DHF-MR11-XT-F2					
			22	SE-16DHF-MR22-XT-F2					
33	SE-16DHF-MR33-XT-F2								

**Ordering Code: SE-16DHF-MRXX-XY-XX-X-XXY**

e.g. SE-16DHF-MR33-DT-F1-R-23F

SE-16DHF-MR	Contact <b>XX</b>	-	Configuration <b>XY</b>	-	Form <b>XX</b>	-	Colour <b>X</b>	-	LED Voltage <b>XX</b>	-	Protection <b>Y</b>
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC		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		R=Red G=Green Y=Yellow B=Blue W=White K=Black		00=No Lamp 21=6V DC 22=12V DC 23=24V DC		B=IP40 F=IP65

**Technical Parameters**

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ	Protection Level	IP40 or IP65	24V	-	1.0A
Insulation Resistance	≥ 100MΩ			125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-



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## 16mmØ COMPACT HF SERIES Push-buttons (LED-Lighted and Non-Lighted)

Date:

24<sup>th</sup> May 2007

Group:

SE-16DHF

Part Number:

SE-16DHF-PBXX-XX-XX-X-XX

Data Sheet:

SE-16DHF-PB-BIG

IP40 & IP65



Illustration of Flexible Modules  
(Push Button Switch)

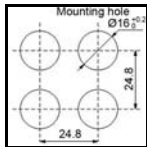


18x24mm  
Form-4

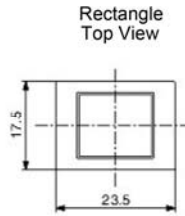
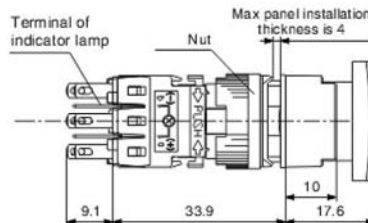


24x24mm  
Form-5

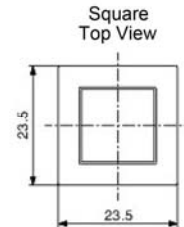
### Flexible Modular Design



Drilling Plan  
for Form-4&5





Rectangle  
Top View



Square  
Top View



Product	Style	Working Manner	Contact	Type	Color	LED Lamp Voltage	Protection
18x24mm Push-button	 Form-4	Momentary	11	SE-16DHF-PB11-XM-F4	R=Red G=Green Y=Yellow B=Blue W=White	00=No Lamp 21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65
			22	SE-16DHF-PB22-XM-F4			
			33	SE-16DHF-PB33-XM-F4			
		Maintained	11	SE-16DHF-PB11-XT-F4			
			22	SE-16DHF-PB22-XT-F4			
			33	SE-16DHF-PB33-XT-F4			
24x24mm Push-button	 Form-5	Momentary	11	SE-16DHF-PB11-XM-F5			
			22	SE-16DHF-PB22-XM-F5			
			33	SE-16DHF-PB33-XM-F5			
		Maintained	11	SE-16DHF-PB11-XT-F5			
			22	SE-16DHF-PB22-XT-F5			
			33	SE-16DHF-PB33-XT-F5			

Ordering Code: SE-16DHF-PBXX-XY-XX-X-XXY

e.g. SE-16DHF-PB33-DT-F4-R-23F

SE-16DHF-PB	Contact XX	-	Configuration XY	-	Form XX	-	Colour X	-	LED Voltage XX	-	Protection Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC		NM=Non-Lighted Momentary NT=Non-Lighted Maintained DM=LED Lighted Momentary DT=LED Lighted Maintained		F4= 18x24mm Push-button F5= 24x24mm Push-button		R=Red G=Green Y=Yellow B=Blue W=White K=Black		00=No Lamp 21=6V DC 22=12V DC 23=24V DC		B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ			24V	-	1.0A
Insulation Resistance	≥ 100MΩ	Protection Level	IP40 or IP65	125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-





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## 16mmØ COMPACT HF SERIES Selector Switches (Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
**SE-16DHF**

Part Number:  
**SE-16DHF-SSXX-XY-XX-X-Y**

Data Sheet:  
**SE-16DHF-SS**

**IP40 & IP65**



Illustration of Flexible Modules  
(Push Button Switch)



**18x24mm  
Form-1**

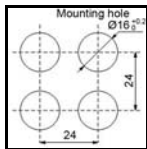


**18x18mm  
Form-2**

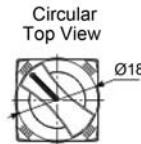
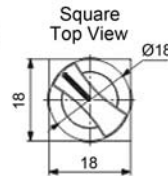
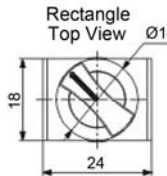
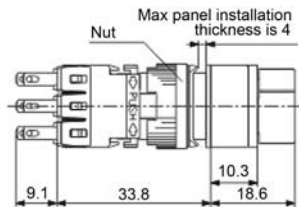


**18mmØ  
Form-3**

### Flexible Modular Design



Drilling Plan



Product	Style	Contact	Pos.	Working Manner				Type	Color	Protection
				Left to C/R	Both to C	Right to C/L	Maintained			
18x24mm Selector Switch	Form-1	11	2 Pos.			L	R	SE-16DHF-SS11-2X-F1	K=Black	B=IP40 F=IP65
		22					L	R		
		33					L	R		
18x18mm Selector Switch	Form-2	11	2 Pos.			L	R	SE-16DHF-SS11-2X-F2		
		22					L	R		
		33					L	R		
18mmØ Selector Switch	Form-3	11	2 Pos.			L	R	SE-16DHF-SS11-2X-F3		
		22					L	R		
		33					L	R		
		11	2 Pos.			L	R	SE-16DHF-SS11-2X-F1		
		22					L	R	SE-16DHF-SS22-2X-F1	
		33					L	R	SE-16DHF-SS33-2X-F1	
		11	2 Pos.			L	R	SE-16DHF-SS11-2X-F2		
		22					L	R	SE-16DHF-SS22-2X-F2	
		33					L	R	SE-16DHF-SS33-2X-F2	
		11	2 Pos.			L	R	SE-16DHF-SS11-2X-F3		
		22					L	R	SE-16DHF-SS22-2X-F3	
		33					L	R	SE-16DHF-SS33-2X-F3	

Ordering Code: **SE-16DHF-SSXX-XY-XX-X-Y** e.g. SE-16DHF-SS33-3B-F1-R-F

SE-16DHF-SS	Contact XX	Pos. X	Configuration Y	Form XX	Colour X	Protection Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	2=2 Positions 3=3 Positions	L= Momentary return from Left to Center (3 pos.) / Right (2 pos.) B= Momentary return from Both (Left/Right) to Center (3 pos.) R= Momentary return from Right to Center (3 pos.) / Left (2 pos.) T= mainTained	F1=18x24mm F2=18x18mm F3=18Ømm	B=Black	B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ	Protection Level	IP40 or IP65	24V	-	1.0A
Insulation Resistance	≥ 100MΩ			125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-



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## 16mmØ COMPACT HF SERIES Key-Lock Switches (Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
**SE-16DHF**

Part Number:  
**SE-16DHF-KSXX-XY-XX-X-X-Y**

Data Sheet:  
**SE-16DHF-KS**

**IP40 & IP65**



Illustration of Flexible Modules  
(Push Button Switch)

### Flexible Modular Design



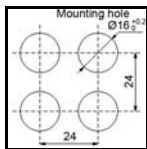
**18x24mm  
Form-1**



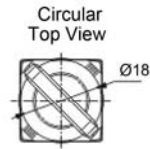
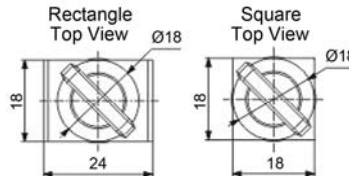
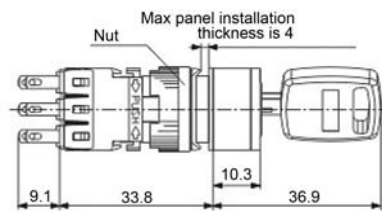
**18x18mm  
Form-2**



**18mmØ  
Form-3**



Drilling Plan



Product	Style	Contact	Pos.	Working Manner				Type	Color	Key Removal	Protection
				Left to C/R	Both to C	Right to C/L	Maintained				
18x24mm Key-Lock Switch	Form-1	11	2 Pos.					SE-16DHF-KS11-2X-F1	K=Black	L=Left C=Center R=Right A=All	B=IP40 F=IP65
		22					SE-16DHF-KS22-2X-F1				
		33					SE-16DHF-KS33-2X-F1				
		33	3 Pos.					SE-16DHF-KS33-3X-F1			
18x18mm Key-Lock Switch	Form-2	11	2 Pos.					SE-16DHF-KS11-2X-F2			
		22					SE-16DHF-KS22-2X-F2				
		33					SE-16DHF-KS33-2X-F2				
		33	3 Pos.					SE-16DHF-KS33-3X-F2			
18mmØ Key-Lock Switch	Form-3	11	2 Pos.					SE-16DHF-KS11-2X-F3			
		22					SE-16DHF-KS22-2X-F3				
		33					SE-16DHF-KS33-2X-F3				
		33	3 Pos.					SE-16DHF-KS33-3X-F3			

Ordering Code: **SE-16DHF-KSXX-XY-XX-X-X-Y** e.g. SE-16DHF-KS33-3B-F1-R-C-F

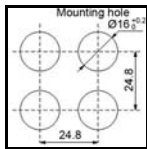
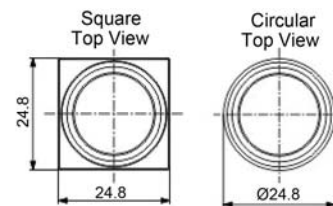
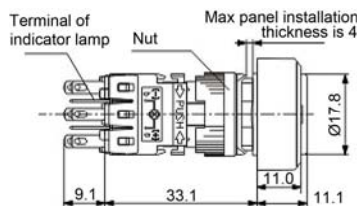
SE-16DHF-KS	Contact <b>XX</b>	Pos. <b>X</b>	Configuration <b>Y</b>	Form <b>XX</b>	Colour <b>X</b>	Key <b>X</b>	Protection <b>Y</b>
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	2=2 Pos. 3=3 Pos.	L= Momentary return from Left to Center (3 pos.) / Right (2 pos.) B= Momentary return from Both (Left/Right) to Center (3 pos.) R= Momentary return from Right to Center (3 pos.) / Left (2 pos.) T= mainTained	F1=18x24mm F2=18x18mm F3=18Ømm	K=Black	L=Left C=Center R=Right A=All	B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ	Protection Level	IP40 or IP65	24V	-	1.0A
Insulation Resistance	≥ 100MΩ			125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-



## 16mmØ HM Hi-Tech Look SERIES Push-button Switches (LED-Lighted and Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**Group:  
**SE-16DHM**Part Number:  
**SE-16DHM-PBXX-XY-XX-XY-XXY**Data Sheet:  
**SE-16DHM-PB****IP40 & IP65****Flexible Modular Design****25x25mm  
Form-2****25mmØ  
Form-3****Drilling Plan  
for Form-2&3**

Product	Style	Working Manner	Contact	Type	Color of Ring	Color of Lens	LED Lamp Voltage	Protection
25x25mm Push-button		Momentary	11	SE-16DHM-PB11-XM-F2	R= Red G= Green Y= Yellow B= Blue W= White E= Electroplated A= Amber P= Purple T= Transparent	R= Red G= Green Y= Yellow B= Blue W= White	00=No Lamp 21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65
			22	SE-16DHM-PB22-XM-F2				
			33	SE-16DHM-PB33-XM-F2				
		Maintained	11	SE-16DHM-PB11-XT-F2				
			22	SE-16DHM-PB22-XT-F2				
			33	SE-16DHM-PB33-XT-F2				
25mmØ Push-button		Momentary	11	SE-16DHM-PB11-XM-F3				
			22	SE-16DHM-PB22-XM-F3				
			33	SE-16DHM-PB33-XM-F3				
		Maintained	11	SE-16DHM-PB11-XT-F3				
			22	SE-16DHM-PB22-XT-F3				
			33	SE-16DHM-PB33-XT-F3				

**Ordering Code:** SE-16DHM-PBXX-XY-XX-XY-XXY e.g. SE-16DHM-PB33-DT-F1-RR-23F

SE-16DHM-PB	Contact	Configuration	Form	Colour of Chromatic Ring	Colour of Lens	LED Voltage	Protection
	XX	XY	XX	X	Y	XX	Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	NM=Non-Lighted Momentary NT=Non-Lighted Maintained DM=LED Lighted Momentary DT=LED Lighted Maintained	F2=25x25mm F3=25Ømm	R= Red G= Green Y= Yellow B= Blue W= White E= Electroplated A= Amber P= Purple T= Transparent	R= Red G= Green Y= Yellow B= Blue W= White	00=No Lamp 21=6V DC 22=12V DC 23=24V DC	B=IP40 F=IP65

**Technical Parameters**

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ			24V	-	1.0A
Insulation Resistance	≥ 100MΩ	Protection Level	IP40 or IP65	125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-





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## 16mmØ HM Hi-Tech Look SERIES Pilot Lights (LED-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
SE-16DHM

Part Number:  
**SE-16DHM-PL-XY-XXY**

Data Sheet:  
**SE-16DHM-PL**

**IP40 & IP65**



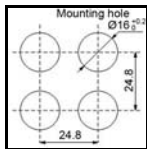
**Flexible Modular Design**



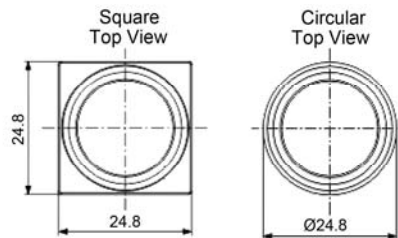
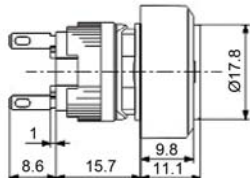
**25x25mm  
Form-2**





**25mmØ  
Form-3**



**Drilling Plan  
for Form-2&3**



Product	Style	Type	Color of Ring	Color of Lens	LED Lamp Voltage	Protection
25x25mm Push-button	 Form-2	SE-16DHM-PL-F2	R= Red G= Green Y= Yellow B= Blue W= White E= Electroplated A= Amber P= Purple T= Transparent	R= Red G= Green Y= Yellow B= Blue W= White	21=6V DC 22=12V DC 23=24V DC  (LED Lamp's current ≤ 10mA)	B=IP40 F=IP65
25mmØ Push-button	 Form-3	SE-16DHM-PL-F3				

**Ordering Code:** SE-16DHM-PL-XY-XXY e.g. SE-16DHM-PL-RR-23F

SE-16DHM-PL	Contact XX	Form XX	Colour of Chromatic Ring X	Colour of Lens & LED Y	LED Voltage XX	Protection Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	F2=25x25mm F3=25Ømm	R= Red G= Green Y= Yellow B= Blue W= White E= Electroplated A= Amber P= Purple T= Transparent	R= Red G= Green Y= Yellow B= Blue W= White	21=6V DC 22=12V DC 23=24V DC	B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)
Humidity	45 ~ 85%RH	Protection Level	IP40 or IP65
Contact Resistance	≤ 200mΩ		
Insulation Resistance	≥ 100MΩ		
Withstand Voltage	> 2000VAC		



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## 16mmØ HM Hi-Tech Look SERIES Selector Switches (Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
**SE-16DHM**

Part Number:  
**SE-16DHM-SSXX-XY-XX-X-Y**

Data Sheet:  
**SE-16DHM-SS**

**IP40 & IP65**



Illustration of Flexible Modules  
(Push Button Switch)

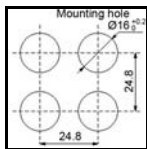
**Flexible Modular Design**



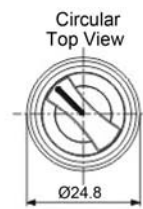
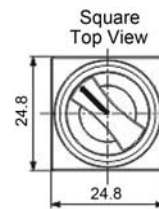
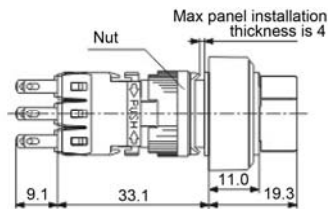
**25x25mm  
Form-2**



**25mmØ  
Form-3**



**Drilling Plan**



Product	Style	Contact	Pos.	Working Manner				Type	Color of Ring	Protection
				Left to C/R	Both to C	Right to C/L	Maintained			
25x25mm Selector Switch	Form-2	11	2 Pos.			L R 70°	L R 90°	SE-16DHM-SS11-2X-F2	R= Red G= Green Y= Yellow B= Blue W= White E= Electro-plated A= Amber P= Purple T= Transparent	B=IP40 F=IP65
		22						SE-16DHM-SS22-2X-F2		
		33						SE-16DHM-SS33-2X-F2		
25mmØ Selector Switch	Form-3	11	2 Pos.			L R 70°	L R 90°	SE-16DHM-SS11-2X-F3		
		22						SE-16DHM-SS22-2X-F3		
		33					SE-16DHM-SS33-2X-F3			
		33	3 Pos.	L R 70° 90° 3-pos. L to C	L R 70° 70° 3-pos. B to C	L R 90° 70° 3-pos. R to C	L R 90° 90° 3-pos. Maintained	SE-16DHM-SS33-3X-F2		
		33	3 Pos.	L R 70° 90° 3-pos. L to C	L R 70° 70° 3-pos. B to C	L R 90° 70° 3-pos. R to C	L R 90° 90° 3-pos. Maintained	SE-16DHM-SS33-3X-F3		

**Ordering Code:** SE-16DHM-SSXX-XY-XX-X-Y e.g. SE-16DHM-SS33-3B-F3-R-F

SE-16DHM-SS	Contact XX	Pos. X	Configuration Y	Form XX	Colour of Chromatic Ring X	Protection Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	2=2 Positions 3=3 Positions	L= Momentary return from Left to Center (3 pos.) / Right (2 pos.) B= Momentary return from Both (Left/Right) to Center (3 pos.) R= Momentary return from Right to Center (3 pos.) / Left (2 pos.) M= Maintained	F2=25x25mm F3=25Ømm	R=Red G=Green Y=Yellow B=Blue W=White E= Electro-plated A= Amber P= Purple T= Transparent	B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	Voltage	AC	DC
Contact Resistance	≤ 200mΩ	Protection Level	IP40 or IP65	24V	-	1.0A
Insulation Resistance	≥ 100MΩ			125V	-	0.2A
Withstand Voltage	> 2000VAC			250V	6.0A	-



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## 16mmØ HM Hi-Tech Look SERIES Key-Lock Switches (Non-Lighted)

Date:  
**24<sup>th</sup> May 2007**

Group:  
**SE-16DHM**

Part Number:  
**SE-16DHM-KSXX-XY-XX-X-X-Y**

Data Sheet:  
**SE-16DHM-KS**

**IP40 & IP65**



Illustration of Flexible Modules  
(Push Button Switch)

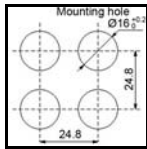
### Flexible Modular Design



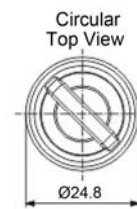
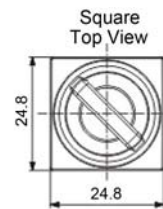
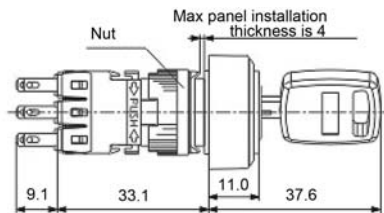
**25x25mm  
Form-2**



**25mmØ  
Form-3**



Drilling Plan



Product	Style	Contact	Pos.	Working Manner				Type	Color of Ring	Key Removal	Protection
				Left to C/R	Both to C	Right to C/L	Maintained				
25x25mm Key-Lock Switch		11	2 Pos.					SE-16DHM-KS11-2X-F2	R= Red G= Green Y= Yellow B= Blue W= White E= Electro-plated A= Amber P= Purple T= Transparent	L=Left C=Center R=Right A=All	B=IP40 F=IP65
		22						SE-16DHM-KS22-2X-F2			
		33						SE-16DHM-KS33-2X-F2			
25mmØ Key-Lock Switch		33	3 Pos.					SE-16DHM-KS33-3X-F2			
		11						SE-16DHM-KS11-2X-F3			
		22						SE-16DHM-KS22-2X-F3			
		33					SE-16DHM-KS33-2X-F3				
		33	3 Pos.					SE-16DHM-KS33-3X-F3			

Ordering Code: **SE-16DHM-KSXX-XY-XX-X-X-Y** e.g. SE-16DHM-KS33-3B-F2-R-C-F

SE-16DHM-KS	Contact	Pos.	Configuration	Form	Colour of Chromatic Ring	Key	Protection
	XX	X	Y	XX	X	X	Y
	11=1NO+1NC 22=2NO+2NC 33=3NO+3NC	2=2 Pos. 3=3 Pos.	L= Momentary return from Left to Center (3 pos.) / Right (2 pos.) B= Momentary return from Both (Left/Right) to Center (3 pos.) R= Momentary return from Right to Center (3 pos.) / Left (2 pos.) M= Maintained	F2=25x25mm F3=25Ømm	R=Red G=Green Y=Yellow B=Blue W=White E= Electro-plated A= Amber P= Purple T= Trans-parent	L=Left C=Center R=Right A=All	B=IP40 F=IP65

### Technical Parameters

Environmental Temperature	-20°C ~ +70°C	Electrical Life	1x10 <sup>5</sup> Times (220V AC 0.7A)	Rating of Contact		
				Voltage	AC	DC
Humidity	45 ~ 85%RH	Mechanical Life	1x10 <sup>6</sup> Times (Momentary) 25x10 <sup>4</sup> Times (Maintained)	24V	-	1.0A
Contact Resistance	≤ 200mΩ	Protection Level	IP40 or IP65	125V	-	0.2A
Insulation Resistance	≥ 100MΩ			250V	6.0A	-
Withstand Voltage	> 2000VAC					



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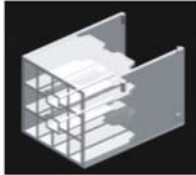



## Accessories & Parts for 16mmØ Switches

Date:  
**14<sup>th</sup> Jun 2007**

Group:  
**SE-16DHF**

Part Number:  
**SE-16DHF-AC-XX**

Data Sheet:  
**SE-16DHF-AC**

Part No.		Description	HF	HM	Remarks
SE-16DHF-LENS-F1		Lens			
SE-16DHF-LENS-F2			✓	✓	
SE-16DHF-LENS-F3					
SE-16DHF-SYMBOL-F1-SXX		Plastic Symbol Plastic Symbol To install inside switch			
SE-16DHF-SYMBOL-F2-SXX		<u>SXX=Symbol</u> S18=UP S19=DOWN S20=STOP S21=START S22= ON S23=OFF	✓	✓	
SE-16DHF-SYMBOL-F3-SXX					
SE-16DHF-IS		Insulation Sheath The conductor is passed through the ferrule then the insulation sheath is installed on the switch rack.	✓	✓	
SE-16DHF-WC-F1		Waterproof Cover The waterproof cover increases the protection level to IP67.			
SE-16DHF-WC-F2			✓	✓	
SE-16DHF-WC-F3					





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SE-16DHF-PC		Front Panel plug for 16mmØ mounting hole	✓	✓	
SE-16DHF-MT		Mounting Tool For fastening 16mm switches effectively and firmly	✓	✓	
SE-16DHF-RT		Removing Tool It is used to change the lens.	✓	✓	
SE-16DHF-CL		Connector Lug	✓	✓	
SE-16DHF-KY		Key For key-lock switches	✓	✓	
SE-16DHF-LH-R-XX SE-16DHF-LH-G-XX SE-16DHF-LH-Y-XX SE-16DHF-LH-B-XX SE-16DHF-LH-W-XX		LED Lamp Light source for 16mmØ lighted switches  <u>Color:</u> R-Red, G-Green, Y-Yellow, B-Blue, W-White  <u>XX = Lamp voltage</u> 21=6V AC/DC 22=12V AC/DC 23=24V AC/DC	✓	✓	