

Company Profile

Company Profile

Switchlab Inc. was found in 1988. We are now the professional leading manufacturer of electric machinery switches and terminal blocks in Taiwan.

Switchlab Inc. over the years has constantly developed European type switches, Japanese type terminal blocks, and some of European type terminal blocks to meet market demand. Meanwhile, the electric machinery market is growing up fast. Switchlab Inc invested large sums yearly in technical development and procedure improvement. We develop lots of new models every year, such as European type terminal blocks for PCB application and connection. Therefore, our products can meet all customer requests; we get good feedback from famous companies in worldwide. That's why our business is growing up stably.

Before establishment, Switchlab R&D team, we gathered, had many years of industry experience. That's why we could start this business of switches & terminal blocks quickly, and create the trademark "DECA". We would like to meet total solution demand from customers, so we have our own departments for injection, molding, stamping and mechanical equipments in house started from 1995. This allows us to speed product development and control quality stability; therefore we can meet customer requirements in price, quality, & delivery.

With over 20 years of experience in the development of electric machinery products, Switchlab becomes a leading manufacturer of professional illuminated pushbutton switches, particular switches, & terminal connection in Taiwan. Our products, not only switches but also terminal blocks, dominate more than 50% market share in the industrial field of Taiwan. Based on experienced R&D team & full-integrated production process, we create many new products available on market every year. That's why we are able to be OEM/ODM for famous companies in worldwide.

Keeping back in Taiwan, getting foothold in mainland China, taking a broad view are Switchlab main goals of business operation. Switchlab sales turnover is growing up every year. Especially, our creation of technology & stability of quality are higher than any other Asian supplier in this filed very much. This is our end mission to provide best services, competitive price & highest quality to all customers, and then we can grow up together with our customer prosperously.

公司簡介

進聯工業股份有限公司 (Switchlab Inc.) 成立於 1988 年，為台灣著名電機開關、電子端子連接器的專業生產製造廠。

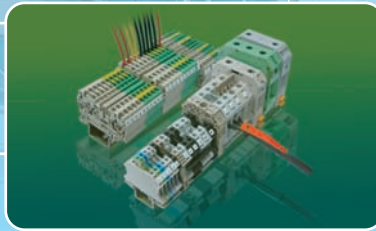
進聯公司成立以來為因應市場之需求，持續不斷地開發歐式電機開關、日式端子、以及部份歐式PCB 端子。並鑑於當時電機市場榮景，進聯工業逐年提撥資金，不斷突破開發技術和製造，每年開發多種新機種，如：歐式PCB 端子及連接器，滿足所有客戶需求，獲得國際大廠青睞，生意卓著。

本公司成立之前，進聯工業的公司技術團隊即具備相當豐富的實戰經驗，因此當進入電機開關和電子端子連接器生產領域時，進聯工業即能以非常快的速度發展此事業，成立自有品牌 DECA。同時，為了滿足客戶全方位需求，於 1995 年後，陸續成立射出，塑模，沖模，及機械等製造部門，更加速產品開發及品質的控制，進而滿足客戶價格、品質、與交期。

累積超過 20 餘年的電機產品研發經驗，進聯工業已成為台灣照光式專業按鈕開關、特殊開關、端子連結器之專業領導廠。目前我們的產品，不論是按鈕開關或端子，在台灣工業領域的市場佔有率，已超過 50%以上。由於我們資深研發團隊，和堅強生產陣容，因應市場需求，每年不斷有數十種新產品開發問市，也因此進聯工業能承接每年大量來自不同國家所下的OEM/ODM 訂單。

根留台灣，立足大陸，放眼天下，是進聯工業經營團隊的經營目標。進聯工業除了不斷地創造業績成長，更在技術創新和品質穩定性方面，持續超出亞洲同業大廠。進聯工業期許提供最佳服務，最好價格，及最高品質，與客戶共同成長，為公司最終目標。

Company Profile

















































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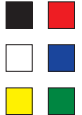

















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


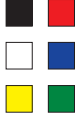




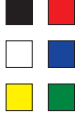







Pushbutton Switches							
Series	Head Shape	Function	Round	Square	Rectangular	Color	Page No.
ADA16S Series (IP65 Illuminated Soldering/plug-in)	High Bezel	Illustration					12-14
		Alternate	ADA16S6-AR2-A2 □□	ADA16S6-AS2-A2 □□	ADA16S6-AT2-A2 □□		
		Momentary	ADA16S6-MR2-A2 □□	ADA16S6-MS2-A2 □□	ADA16S6-MT2-A2 □□		
	Flush Mounting	Illustration					15-17
		Alternate	ADA16S6-AR3 A2 □□	ADA16S6-AS3-A2 □□	ADA16S6-AT3-A2 □□		
		Momentary	ADA16S6-MR3-A2 □□	ADA16S6-MS4-A2 □□	ADA16S6-MT3-A2 □□		
	Overhanging Lenses	Illustration					18-20
		Alternate		ADA16S6-AS4-A2 □□	ADA16S6-AT4-A1 □□		
		Momentary		ADA16S6-MS4-A2 □□	ADA16S6-MT4-A1 □□		
	Full Guard	Illustration					12-14
		Alternate		ADA16S6-AA5-A1 □□			
		Momentary		ADA16S6-MA5-A1 □□			

























Selector Switches												
Series	Head Shape	Illustration	Two Position			Three Position		Color	Page No.			
ADA16C Series (IP65 Illuminated Soldering/plug-in)	Standard		Alternate	A		ADA16C6-AA1-AA □□	Alternate	H		ADA16C6-AA1-AH □□		22-24
				F		ADA16C6-AA1-AE □□		O		ADA16C6-MA1-AO □□		
				U		ADA16C6-MA1-AU □□		S		ADA16C6-MA1-AS □□		
			Momentary	A		ADA16C6-AS1-AA □□	Momentary	H		ADA16C6-AS1-AH □□		
				E		ADA16C6-AS1-AE □□		O		ADA16C6-MS1-AO □□		
				U		ADA16C6-MS1-AU □□		S		ADA16C6-MS1-AS □□		
	Rectangular		Alternate	A		ADA16C6-AT1-AA □□	Alternate	H		ADA16C6-AT1-AH □□		22-24
				F		ADA16C6-AT1-AE □□		O		ADA16C6-MT1-AO □□		
				U		ADA16C6-MT1-AU □□		S		ADA16C6-MT1-AS □□		
			Momentary	A		ADA16C6-AC1-AA □□	Momentary	H		ADA16C6-AC1-AH □□		
				E		ADA16C6-AC1-AE □□		O		ADA16C6-MC1-AO □□		
				U		ADA16C6-MC1-AU □□		S		ADA16C6-MC1-AS □□		




Keylock Switches														
Series	Head Shape	Illustration	Two Position			Three Position			Color	Page No.				
ADA16K Series (IP65 Soldering/plug-in)	Standard		Alternate	A		ADA16K6-AR0-CA	Alternate	H		ADA16K6-AR0-CH	■	26-28		
				C		ADA16K6-AR0-CC		I		ADA16K6-AR0-CI				
				E		ADA16K6-AR0-CE		K		ADA16K6-AR0-CK				
				F		ADA16K6-AR0-CF		O		ADA16K6-MR0-CO				
				U		ADA16K6-MR0-CU		S		ADA16K6-MR0-CS				
	Square		Alternate	A		ADA16K6-AS0-CA	Alternate	H		ADA16K6-AS0-CH			■	26-28
				C		ADA16K6-AS0-CC		I		ADA16K6-AS0-CI				
				E		ADA16K6-AS0-CE		K		ADA16K6-AS0-CK				
				F		ADA16K6-AS0-CF		O		ADA16K6-MS0-CO				
				U		ADA16K6-MS0-CU		S		ADA16K6-MS0-CS				
	Rectangular		Alternate	A		ADA16K6-AT0-CA	Alternate	H		ADA16K6-AT0-CH	■	26-28		
				C		ADA16K6-AT0-CC		I		ADA16K6-AT0-CI				
				E		ADA16K6-AT0-CE		K		ADA16K6-AT0-CK				
				F		ADA16K6-AT0-CF		O		ADA16K6-MT0-CO				
				U		ADA16K6-MT0-CU		S		ADA16K6-MT0-CS				
	Flange		Alternate	A		ADA16K6-AA0-CA	Alternate	H		ADA16K6-AA0-CH			■	26-28
				C		ADA16K6-AA0-CC		I		ADA16K6-AA0-CI				
				E		ADA16K6-AA0-CE		K		ADA16K6-AA0-CK				
				F		ADA16K6-AA0-CF		O		ADA16K6-MA0-CO				
				U		ADA16K6-MA0-CU		S		ADA16K6-MA0-CS				

Emergency Stop Switches				
Series	Ø28X31 Illuminated	Ø24X18 Non-illuminated	Color	Page No.
ADA16E Series (IP65 Soldering/plug-in)	Turn Left	Turn Right	■	30-32
				
	ADA16E6-R11-A1 □ □	ADA16E6-R22-C10 □		




Selector Switches										
Series	Head Shape	Illustration	Two Position			Color	Page No.			
ADP16C Series (IP40 plug-in)	Standard				Alternate	A 	ADP16C4-AA1-1A □□		34-36	
					E 	ADP16C4-AA1-1E □□				
					Momentary	U 	ADP16C4-MA1-1U □□			
	Square					Alternate	A 	ADP16C4-AS1-1A □□		
						E 	ADP16C4-AS1-1E □□			
						Momentary	U 	ADP16C4-MS1-1U □□		
	Rectangular					Alternate	A 	ADP16C4-AT1-1A □□		
						E 	ADP16C4-AT1-1E □□			
						Momentary	U 	ADP16C4-MT1-1U □□		
	Flange					Alternate	A 	ADP16C4-AC1-1A □□		
						E 	ADP16C4-AC1-1E □□			
						Momentary	U 	ADP16C4-MC1-1U □□		






Selector Switches												
Series	Head Shape	Illustration	1NO/1NC			1NO/1NC+1NO/1NC			Color	Page No.		
ADD16C Series (IP40 Illuminated Soldering)	Standard						Alternate	A 	ADD16C4-AA1-1A □□		34-37	
							E 	ADD16C4-AA1-1E □□				
							Momentary	U 	ADD16C4-MA1-1U □□			
	Square							Alternate	A 	ADD16C4-AS1-1A □□		
								E 	ADD16C4-AS1-1E □□			
								Momentary	U 	ADD16C4-MS1-1U □□		
	Rectangular							Alternate	A 	ADD16C4-AT1-1A □□		
								E 	ADD16C4-AT1-1E □□			
								Momentary	U 	ADD16C4-MT1-1U □□		
	Flange							Alternate	A 	ADD16C4-AC1-1A □□		
								E 	ADD16C4-AC1-1E □□			
								Momentary	U 	ADD16C4-MC1-1U □□		

Keylock Switches							
Series	Head Shape	Illustration	Two Position			Color	Page No.
			Alternate	Momentary			
ADP16K Series (IP40 plug-in)	Standard		Alternate	A 	ADP16K4-AR0-1A	■	39-41
			C 	ADP16K4-AR0-1C			
			E 	ADP16K4-AR0-1E			
			F 	ADP16K4-AR0-1F			
	Momentary	U 	ADP16K4-MR0-1U				
	Square		Alternate	A 	ADP16K4-AS0-1A	■	39-41
			C 	ADP16K4-AS0-1C			
			E 	ADP16K4-AS0-1E			
			F 	ADP16K4-AS0-1F			
	Momentary	U 	ADP16K4-MS0-1U				
	Rectangular		Alternate	A 	ADP16K4-AT0-1A	■	39-41
			C 	ADP16K4-AT0-1C			
			E 	ADP16K4-AT0-1E			
			F 	ADP16K4-AT0-1F			
	Momentary	U 	ADP16K4-MT0-1U				
	Flange		Alternate	A 	ADP16K4-AA0-1A	■	39-41
C 			ADP16K4-AA0-1C				
E 			ADP16K4-AA0-1E				
F 			ADP16K4-AA0-1F				
Momentary	U 	ADP16K4-MA0-1U					

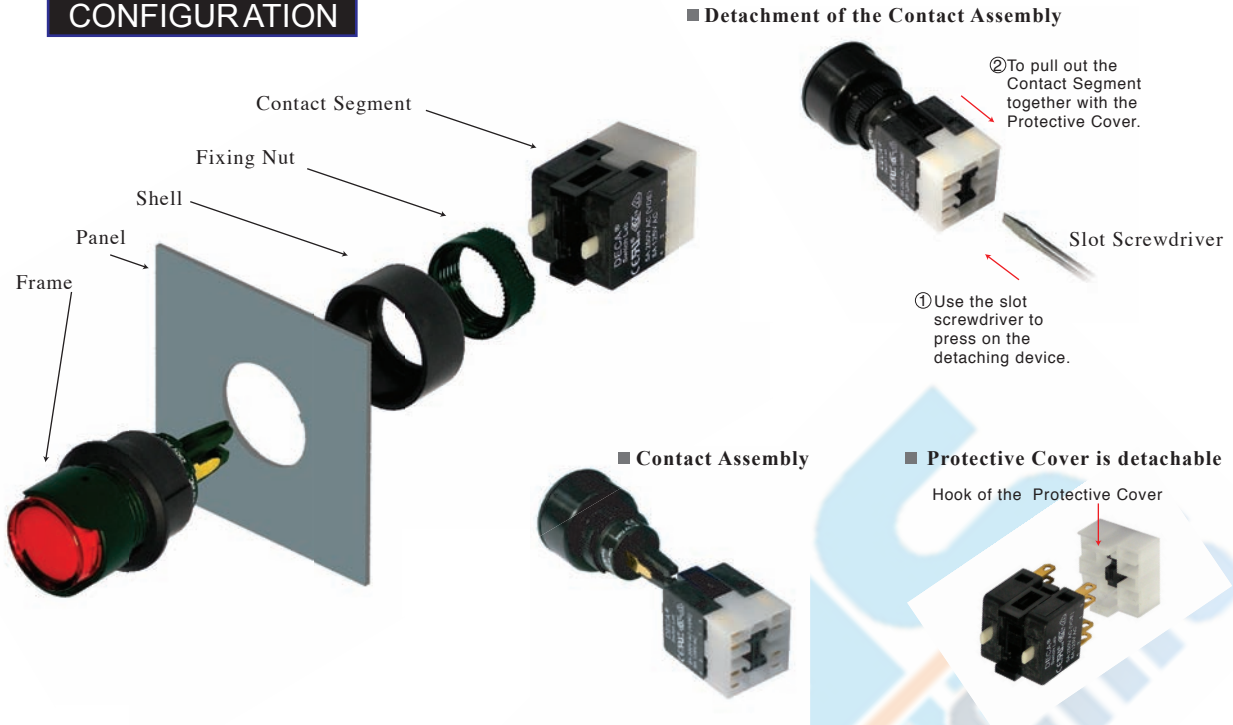
Buzzer					
Series	Head Shape			Color	Page No.
	Round	Square	Rectangular		
ADP16B Series (IP40)				■	44-46
	ADP16B4-OR0-0140	ADP16B4-OS0-0140	ADP16B4-OT0-0140		

Keylock Switches										
Series	Head Shape	Illustration	1NO/1NC			1NO/1NC+1NO/1NC			Color	Page No.
ADD16K Series (IP40 Soldering)	Standard		Alternate	A	 ADD16K4-AR0-1A	Alternate	A	 ADD16K4-AR0-2A	■	39-42
				C	 ADD16K4-AR0-1C		C	 ADD16K4-AR0-2C		
				E	 ADD16K4-AR0-1E		E	 ADD16K4-AR0-2E		
				F	 ADD16K4-AR0-1F		F	 ADD16K4-AR0-2F		
				U	 ADD16K4-MR0-1U		U	 ADD16K4-MR0-2U		
	Square		Alternate	A	 ADD16K4-AS0-1A	Alternate	A	 ADD16K4-AS0-2A	■	39-42
				C	 ADD16K4-AS0-1C		C	 ADD16K4-AS0-2C		
				E	 ADD16K4-AS0-1E		E	 ADD16K4-AS0-2E		
				F	 ADD16K4-AS0-1F		F	 ADD16K4-AS0-2F		
				U	 ADD16K4-MS0-1U		U	 ADD16K4-MS0-2U		
	Rectangular		Alternate	A	 ADD16K4-AT0-1A	Alternate	A	 ADD16K4-AT0-2A	■	39-42
				C	 ADD16K4-AT0-1C		C	 ADD16K4-AT0-2C		
				E	 ADD16K4-AT0-1E		E	 ADD16K4-AT0-2E		
				F	 ADD16K4-AT0-1F		F	 ADD16K4-AT0-2F		
				U	 ADD16K4-MT0-1U		U	 ADD16K4-MT0-2U		
	Flange		Alternate	A	 ADD16K4-AA0-1A	Alternate	A	 ADD16K4-AA0-2A	■	39-42
				C	 ADD16K4-AA0-1C		C	 ADD16K4-AA0-2C		
				E	 ADD16K4-AA0-1E		E	 ADD16K4-AA0-2E		
				F	 ADD16K4-AA0-1F		F	 ADD16K4-AA0-2F		
				U	 ADD16K4-MA0-1U		U	 ADD16K4-MA0-2U		

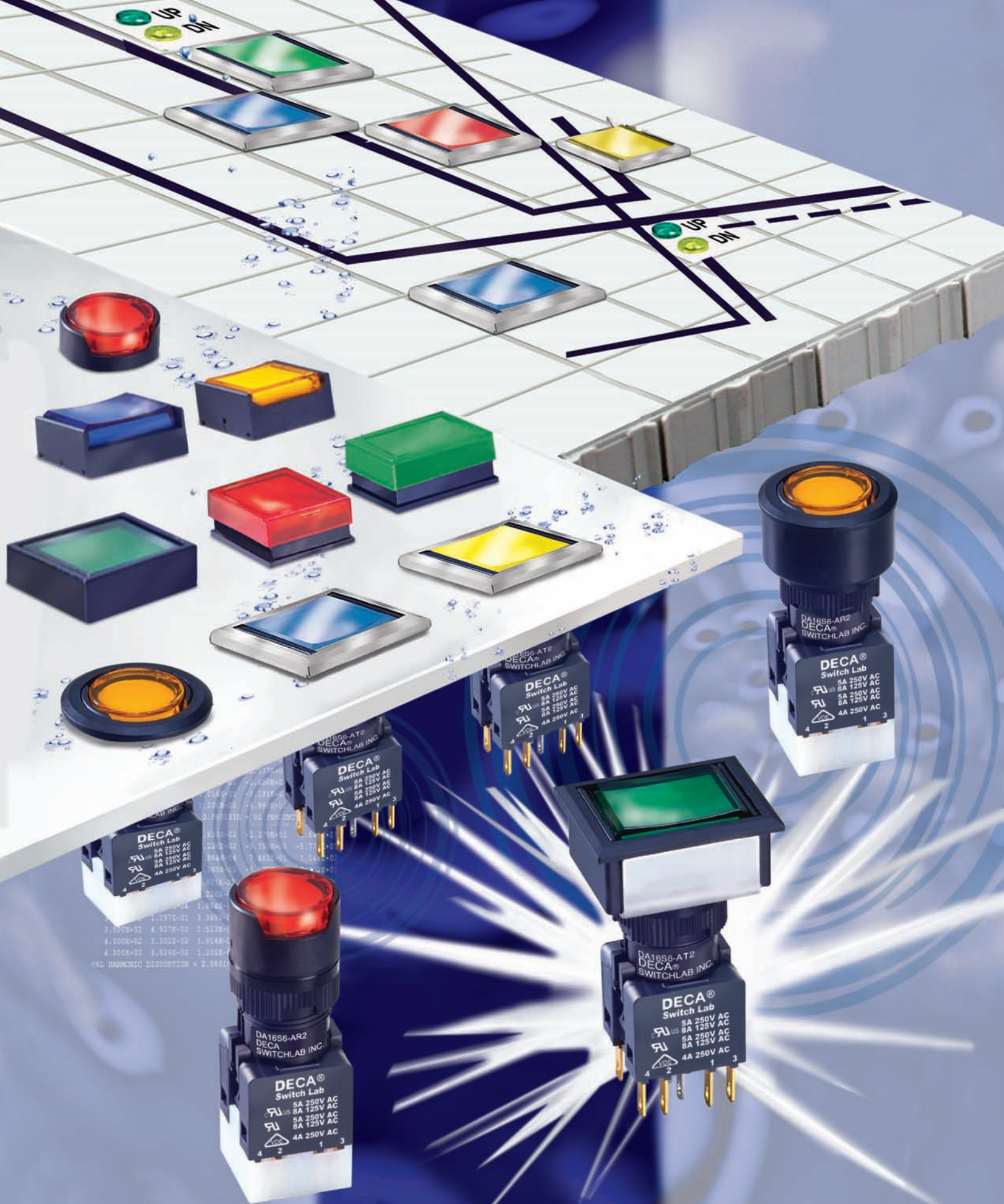
Indicator						
Series	Description	Head Shape			Color	Page No.
		Round	Square	Rectangular		
ADP16F Series (IP40)	110V/220V AC				■ ■ ■	48-50
		ADP16F4-0R0-E1T □	ADP16F4-0S0-E1T □	ADP16F4-0T0-E1T □		

New Switches			
Series	Style	Series	Style
OS 38002		OS 38003-A	
OS 38004		OS 38005	
OS 38006		OS 38007-1	

CONFIGURATION



Item	Illustration	DA16	Dimensions (mm)	Contact Block	Electrical Diagram
ADA16-A		1NC / INO + 1NO / INC			<p>Momentary</p> <p>Alternate</p>
ADA16-B		1NO / INC			<p>Momentary</p> <p>Alternate</p>
ADA16-C		1NO / INC + 1NO / INC			<p>Momentary</p> <p>Alternate</p>
ADA16-D		1NO / INC			<p>Momentary</p> <p>Alternate</p>
ADA16-E		lamp			





DESCRIPTION

- * Detachable design for operation and contact parts, easy installation.
- * Operation Part is possessed of Illuminated Pushbutton function, Pushbutton function and Indicator function.
- * Available Size: Rectangular 18 x 24mm
Square 18 x 18mm & 24 x 24mm
Round: diameter = 18mm
- * With multiple functional bezel, the above shapes can be suitable for different panel like Mosaic panel.
- * IP65 degree for water-proof, liquid and oil prevention enables the device to be used in different field equipments.
- * Applied UL94 V0 high grade fire prevention plastic material.
- * High bezel designed to prevent the accidental touch when installing the device.
- * Can be engraved or marked with different signs on lens with many color options.
- * Illuminated with incandescent, LED and fluorescent light to have a better effect
- * Easy disassembly and additional contacts are available.
- * With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
- * Precision design enables the device with longer mechanical life by operation under the normal environment.
- * Mechanical life: Momentary 2 million operations min.
- * Approvals: UL/CUL/VDE/CE

SPECIFICATIONS

Electrical Rating	250V AC 5A(VDE) 125V AC 8A	Quick-Connect Terminal	2.8 x 0.5mm
Insulation Resistance	50MΩ(initial)according 512-2 to IEC	Wire Range	1x1.5mm ² max
Mechanical Life	momentary: 2 million operations min	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Electrical Life	50,000 operations min	Lighting	LED/incandescent/neon
Insulation Withstand Voltage	2000V AC 60Hz 1min. between all terminals and ground	Storage Temperature	-40°C~+70°C
Actuating Force	1a1b:0.5kgf / 2a2b:0.8kgf	Operating Temperature	-25°C~+55°C
Contact Material	Silver	Degree of Contamination	class II
Terminal	Soldering / plug-in type	Degree of Protection	IP65

ORDER INFORMATION

MODEL FORMAT ADA16S6-**1****2****3**-**4****2****5****6**

1 OPTIONAL FUNCTION

M : MOMENTARY
A : ALTERNATE

2 3 HEAD SHAPE

R1 : ROUND, LOW BEZEL
R2 : ROUND, HIGH BEZEL
S1 : SQUARE, LOW BEZEL
S2 : SQUARE, HIGH BEZEL
T1 : RECTANGULAR, LOW BEZEL
T2 : RECTANGULAR, HIGH BEZEL
A5 : SQUARE (□24), FULL GUARD

4 CONTACT ARRANGEMENT

A : 1NO/1NC+1NO/1NC
B : 1NO/1NC

5 LAMPS

0 : Without lamps
A : Incandescent 6V AC/DC 200mA
B : Incandescent 14V AC/DC 80mA
C : Incandescent 28V AC/DC 40mA
D : Incandescent 48V AC/DC 25mA
E : Incandescent 60V AC/DC 20mA
F : Neon 110V AC
G : Neon 220V AC
H : LED 6V DC
J : LED 12V DC
K : LED 24V DC
L : Incandescent 33V AC/DC 35mA
M : Incandescent 6V AC/DC 40mA
N : Incandescent 14V AC/DC 40mA

6 LENS COLOR

B : Blue
G : Green
O : Orange
R : Red
W : White
Y : Yellow

2 3

R1



R2



S1



S2



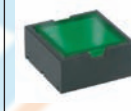
T1



T2



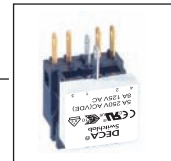
A5







ADA16-A



ADA16-B



unit: mm

SHAPE				
DIMENSIONS	ϕ 18	18x18	18x24	24x24
COLOR	B.G.O.R.W.Y	B.G.O.R.W.Y	B.G.O.R.W.Y	B.G.O.R.W.Y

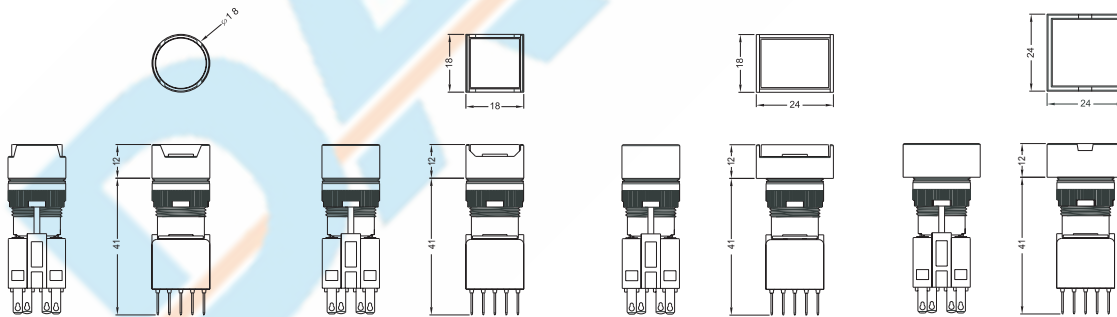
HEAD SHAPE

ADA16S6-AR2-A2
 ADA16S6-MR2-A2

ADA16S6-AS2-A2
 ADA16S6-MS2-A2

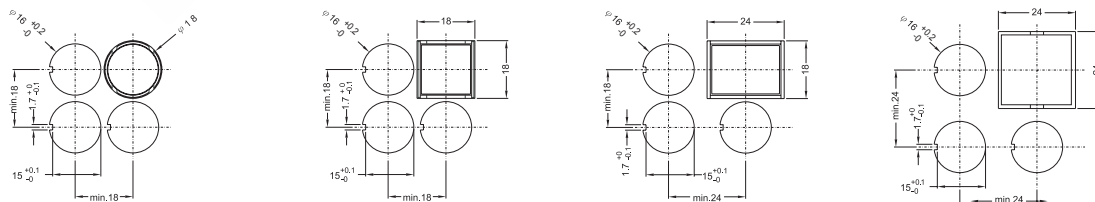
ADA16S6-AT2-A2
 ADA16S6-MT2-A2

ADA16S6-AA5-A1
 ADA16S6-MA5-A1



MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0





DESCRIPTION

- * Detachable design for operation and contact parts, easy installation.
- * Operation Part is possessed of illuminated Pushbutton function, Pushbutton function and Indicator function.
- * Available Size: Rectangular 24 x 30mm
Square 24 x 24mm
Round: diameter ~ 25mm
- * With multiple functional bezel, the above shapes can be suitable for different panels like Mosaic panel.
- * IP65 degree for water-proof, liquid and oil prevention enables the device to be used in different field equipments.
- * Applied UL94 V0 high grade fire prevention plastic material.
- * High bezel designed to prevent the accidental touch when installing the device.
- * Can be engraved or marked with different signs on lens with many color options.
- * Illuminated with incandescent, LED and fluorescent light to have a better effect.
- * Easy disassembly and additional contacts are available.
- * With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
- * Precision design enables the device with longer mechanical life by operation under the normal environment.
- * Mechanical life: Momentary 2 million times.
- * Approvals: UL/CUL/VDE/CE

SPECIFICATIONS

Electrical Rating	250V AC 5A(VDE) 125V AC 8A	Quick-Connect Terminal	2.8 x 0.5mm
Insulation Resistance	50MΩ(initial)according 512-2 to IEC	Wire Range	1x1.5mm ² max
Mechanical Life	momentary: 2 million operations min	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Electrical Life	50,000 operations min	Lighting	LED/incandescent/neon
Insulation Withstand Voltage	2000V AC 60Hz 1min. between all terminals and ground	Storage Temperature	-40°C~+70°C
Actuating Force	1a1b:0.5kgf / 2a2b:0.8kgf	Operating Temperature	-25°C~+55°C
Contact Material	Silver	Degree of Contamination	class II
Terminal	Soldering / plug-in type	Degree of Protection	IP65

ORDER INFORMATION

MODEL FORMAT ADA16S6-**1****2**3-**3****2****4****5**

1 **OPTIONAL FUNCTION**

- M : MOMENTARY
- A : ALTERNATE

2 **LENS SHAPE**

- R : ROUND
- S : SQUARE
- T : RECTANGULAR

3 **CONTACT ARRANGEMENT**

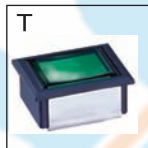
- A : 1NO/1NC+1NO/1NC
- B : 1NO/1NC

4 **LAMPS**

- 0 : Without lamps
- A : Incandescent 6V AC/DC 200mA
- B : Incandescent 14V AC/DC 80mA
- C : Incandescent 28V AC/DC 40mA
- D : Incandescent 48V AC/DC 25mA
- E : Incandescent 60V AC/DC 20mA
- F : Neon 110V AC
- G : Neon 220V AC
- H : LED 6V DC
- J : LED 12V DC
- K : LED 24V DC
- L : Incandescent 33V AC/DC 35mA
- M : Incandescent 6V AC/DC 40mA
- N : Incandescent 14V AC/DC 40mA

5 **LENS COLOR**

- B : Blue
- G : Green
- O : Orange
- R : Red
- W : White
- Y : Yellow





ADA16-A



ADA16-B



unit: mm

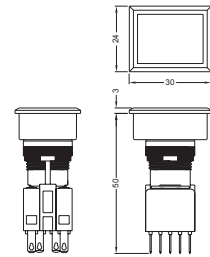
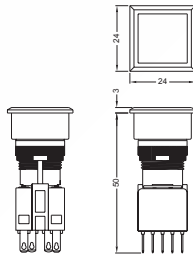
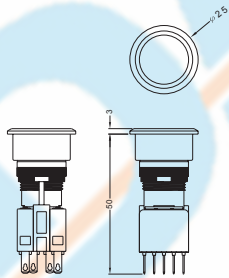
SHAPE			
DIMENSIONS	Ø 25	24x24	24x30
COLOR	B.G.O.R.W.Y	B.G.O.R.W.Y	B.G.O.R.W.Y

HEAD SHAPE

ADA16S6-AR3-A2 □ □
ADA16S6-MR3-A2 □ □

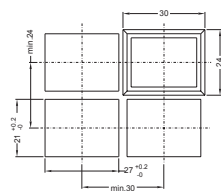
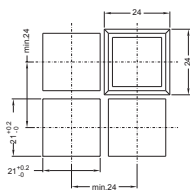
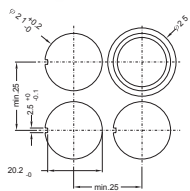
ADA16S6-AS3-A2 □ □
ADA16S6-MS3-A2 □ □

ADA16S6-AT3-A2 □ □
ADA16S6-MT3-A2 □ □



MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0





DESCRIPTION

- * Wider light diffusion enables this device to be seen within wider range.
- * Available Size: Rectangular 18 x 24mm
Square 18 x 18mm
- * Easy assembly and disassembly.
- * Color lens available: Red, Orange, Yellow, Green, Blue, White; engraving on lens or marking available on request.
- * Illuminated by incandescent, LED and Fluorescent light to have a better effect.
- * With both momentary and alternate functions
- * IP65 degree for water-proof, liquid and oil-proof enables the device to be used in equipments of different fields.
- * Applied UL94 V0 high grade fire prevention plastic material.
- * Mechanical Life: Momentary 2 million times.
- * Approvals: UL/CUL/VDE/CE pending

SPECIFICATIONS

Electrical Rating	250V AC 5A 125V AC 8A	Quick-Connect Terminal	2.8 x 0.5mm
Insulation Resistance	50MΩ(initial)according 512-2 to IEC	Wire Range	1x1.5mm ² max
Mechanical Life	momentary: 2 million operations min	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Electrical Life	50,000 operations min	Lighting	LED/incandescent/neon
Insulation Withstand Voltage	2000V AC 60Hz 1min. between all terminals and ground	Operating Temperature	-25°C~+55°C
Actuating Force	1a1b:0.5kgf / 2a2b:0.8kgf	Degree of Contamination	class II
Contact Material	Silver	Degree of Protection	IP65
Terminal	Soldering / plug-in type		

ORDER INFORMATION

MODEL FORMAT ADA16S6-**1****2**4-**3**1**4****5**

1 OPTIONAL FUNCTION

- M : MOMENTARY
- A : ALTERNATE

2 LENS SHAPE

- S : SQUARE
- T : RECTANGULAR

3 CONTACT ARRANGEMENT

- A : 1NO/1NC+1NO/1NC
- B : 1NO/1NC

4 LAMPS

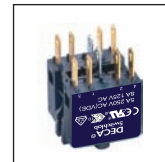
- 0 : Without lamps
- A : Incandescent 6V AC/DC 200mA
- B : Incandescent 14V AC/DC 80mA
- C : Incandescent 28V AC/DC 40mA
- D : Incandescent 48V AC/DC 25mA
- E : Incandescent 60V AC/DC 20mA
- F : Neon 110V AC
- G : Neon 220V AC
- H : LED 6V DC
- J : LED 12V DC
- K : LED 24V DC
- L : Incandescent 33V AC/DC 35mA
- M : Incandescent 6V AC/DC 40mA
- N : Incandescent 14V AC/DC 40mA

5 LENS COLOR

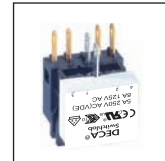
- B : Blue
- G : Green
- O : Orange
- R : Red
- W : White
- Y : Yellow





ADA16-A



ADA16-B



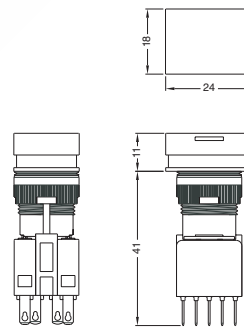
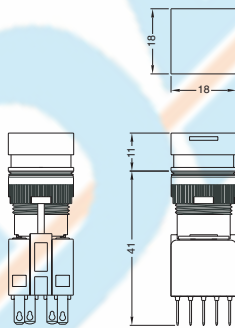
unit: mm

SHAPE		
DIMENSIONS	18x18	18x24
COLOR	B.G.O.R.W.Y	B.G.O.R.W.Y

HEAD SHAPE

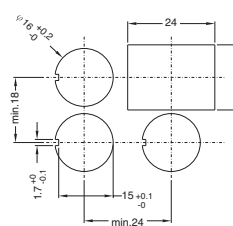
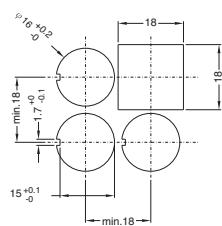
ADA16S6-AS4-A1
 ADA16S6-MS4-A1

ADA16S6-AT4-A1
 ADA16S6-MT4-A1

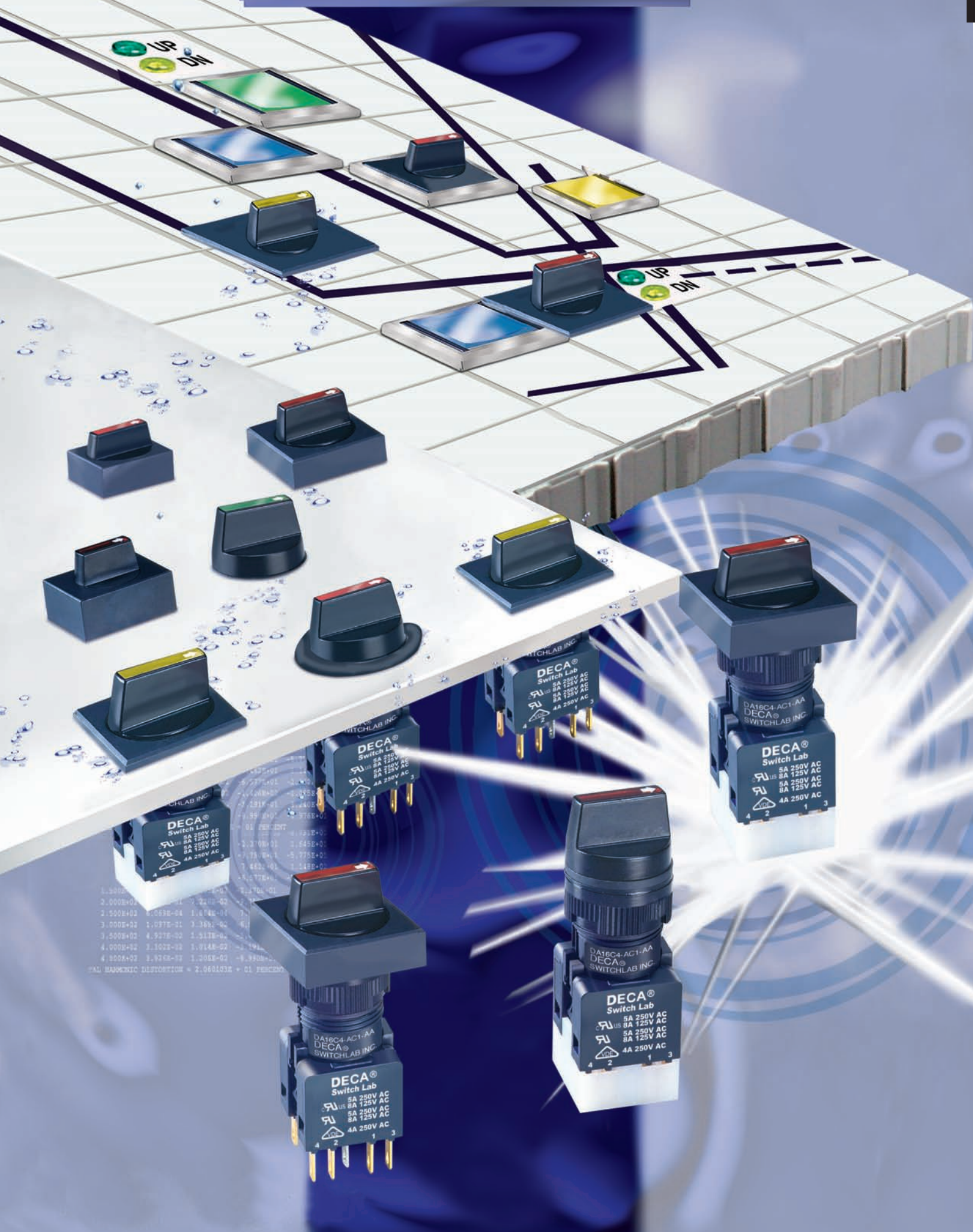


MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



Selector Switches





DESCRIPTION

- * Multiple designs in head shape to fit with different panels and easy installation, Including the standard design, flange bezel design and flush mounting bezel.
- * Available Size: Rectangular 18 x 24mm
Square 18 x 18mm & 24 x 24mm
Round diameter ~18mm
- * Can fit with different panels, like Mosaic Panel.
- * Multiple colors optional. Customers can choose the lamp color according to his demand.
- * With options of Incandescent, LED, and Neon lamp or without lamp.
- * With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
- * Easy disassembly and additional contacts are available.
- * Removable operation contacts design for easy installation.
- * IP65 degree for water-proof, liquid-proof and oil-proof enables the device to be used in equipments of various fields.
- * Approvals: UL/CUL/VDE/CE pending

SPECIFICATIONS

Electrical Rating	250V AC 5A(VDE) 125V AC 8A	Wire Range	1x1.5mm ² max
Insulation Resistance	50MΩ(initial)according 512-2 to IEC	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Mechanical Life	momentary: 250,000 operations min	Lighting	LED/incandescent/neon
Electrical Life	50,000 operations min	Storage Temperature	-40°C~+70°C
Insulation Withstand Voltage	2000V AC 60Hz 1min. between all terminals and ground	Operating Temperature	-25°C~+55°C
Contact Material	Silver	Degree of Contamination	class II
Terminal	Soldering / plug-in type	Degree of Protection	IP40/IP65
Quick-Connect Terminal	2.8 x 0.5mm		

ORDER INFORMATION

MODEL FORMAT ADA16C **1**-**2****3**1-**4****5****6****7**

1 DEGREE OF PROTECTION

4 : IP40
6 : IP65

2 FUNCTION

M : MOMENTARY
A : ALTERNATE

3 HEAD SHAPE

A : STANDARD
C : FLANGE
S : SQUARE
T : RECTANGULAR

4 CONTACT ARRANGEMENT

A : 1NO/1NC+1NO/1NC
B : 1NO/1NC

5 VARIOUS OPTIONS OF DIFFERENT SWITCH TYPE

Alternate		Momentary
A	E	U
Alternate	Momentary	
H	O	S

6 LAMPS

O : Without lamps
A : Incandescent 6V AC/DC 200mA
B : Incandescent 14V AC/DC 80mA
C : Incandescent 28V AC/DC 40mA
D : Incandescent 48V AC/DC 25mA
E : Incandescent 60V AC/DC 20mA
F : Neon 110V AC
G : Neon 220V AC
H : LED 6V DC
J : LED 12V DC
K : LED 24V DC
L : Incandescent 33V AC/DC 35mA
M : Incandescent 6V AC/DC 40mA
N : Incandescent 14V AC/DC 40mA

7 LENS COLOR

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



ADA16-A



ADA16-B



unit: mm

SHAPE				
DIMENSIONS	Ø 18	18x18	18x24	24x24
COLOR	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K

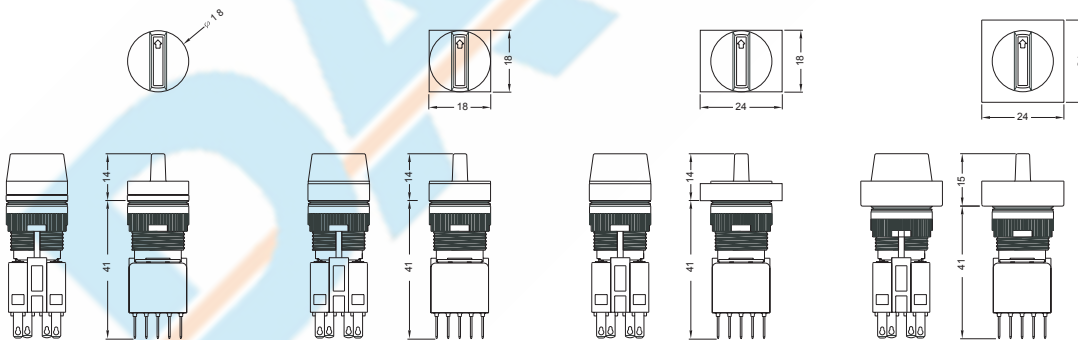
HEAD SHAPE

ADA16C6-□A1-A□□□

ADA16C6-□S1-A□□□

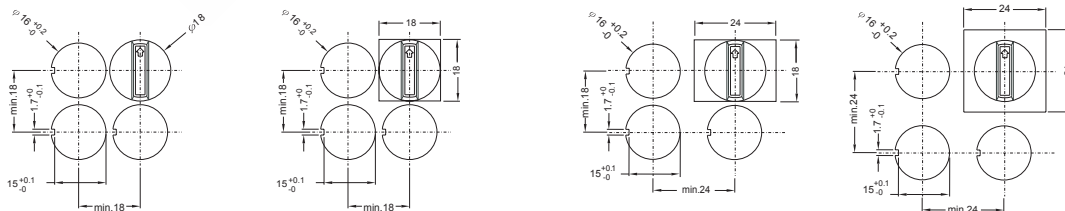
ADA16C6-□T1-A□□□

ADA16C6-□C1-A□□□



MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



Keylock Switches





DESCRIPTION

- *Special design to fit with different panels such as Mosaic panel. It's convenient for users to install in different devices.
- *The precision construction design enables the key operated in a long mechanical life under the normal environment.
- *Available Size: Rectangular 18 x 24mm
Square 18 x 18mm & 24 x 24mm
Round - 18mm
- *With both momentary & alternate functions to meet various practical demands.
- *Precise design in key construction to ensure the movements of insertion & withdrawal can be performed exactly.
- *IP65 degree for water-proof, liquid-proof and oil-proof enables the device to be used in equipments of different fields.
- *Removable operation & contact parts for easy installation.
- *Easy disassembly and additional contacts are available.
- *With special terminal design, it can be used in different PCBs by using soldering or socketing terminal.
- *Applied UL94 V0 high grade fire prevention plastic material.
- *Approvals: UL/CUL/VDE/CE pending

SPECIFICATIONS

Electrical Rating	250V AC 5A(VDE) 125V AC 8A	Quick-Connect Terminal	2.8 x 0.5mm
Insulation Resistance	50M Ω (initial)according 512-2 to IEC	Wire Range	1x1.5mm ² max
Mechanical Life	momentary: 200,000 operations min	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Electrical Life	50,000 operations min	Storage Temperature	-40°C~+70°C
Insulation Withstand Voltage	2000V AC 60Hz 1min. between all terminals and ground	Operating Temperature	-25°C~+55°C
Actuating Force	1a1b:0.5kgf / 2a2b:0.8kgf	Degree of Contamination	class II
Contact Material	Silver	Degree of Protection	IP40/IP65
Terminal	Soldering / plug-in type		

ORDER INFORMATION

MODEL FORMAT ADA16K **1**-**2****3**0-**4****5**

1 DEGREE OF PROTECTION

4 : IP40
6 : IP65

2 FUNCTION

M : MOMENTARY
A : ALTERNATE

3 HEAD SHAPE

A : STANDARD
R : ROUND
S : SQUARE
T : RECTANGULAR

4 CONTACT ARRANGEMENT

C : 1NO/1NC+1NO/1NC
D : 1NO/1NC

5 VARIOUS OPTIONS OF DIFFERENT SWITCH TYPE

Alternate		
A	C	E

Alternate	Momentary
F	U

Alternate		
H	I	K

Momentary	
O	S

Remark: "0" mark are un-removable position



ADA16-C



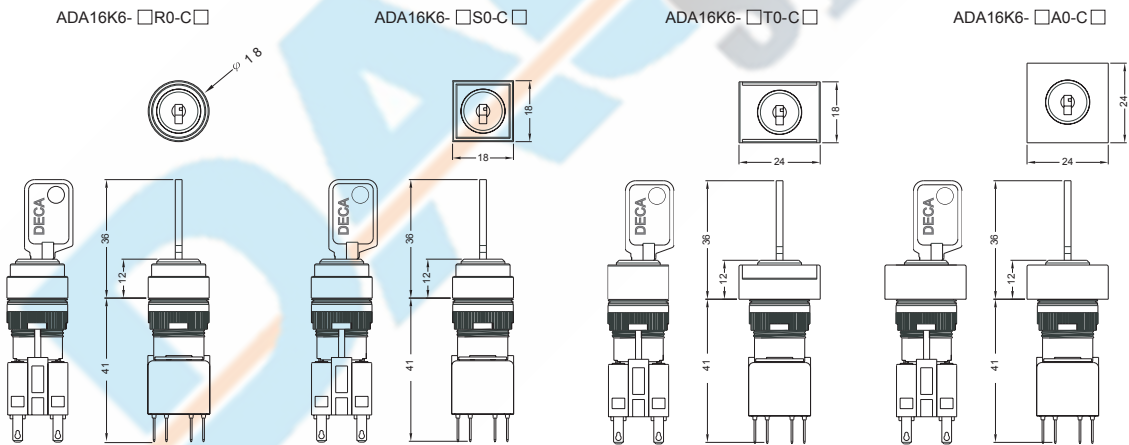
ADA16-D



unit: mm

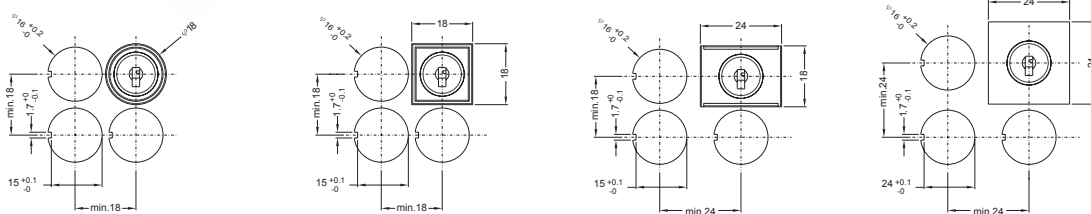
SHAPE				
DIMENSIONS	18	18x18	18x24	24x24

HEAD SHAPE



MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



Emergency Stop Switches



**DESCRIPTION**

- * 28/32 mm large pusher to ensure the exact actuation movement.
- * Easy operation with a thumb or a glove without reducing the convenience.
- * Resetting design in off position, proving the convenient usage.
- * High actuation force to prevent the accidental touch from stopping the machines and causing danger and damage.
- * Illuminated with options of incandescent, LED or Neon lamps to have a better result.
- * IP65 degree for water-proof, liquid and oil-proof enables the device to be used in different application.
- * With two kinds of head shape & safety design to match with different control panels .
- * Removable operation contacts design for easy installation.
- * Easy disassembly and additional contacts are available.
- * Golden plating with high stability and long mechanical life.
- * With special terminal design, can be used in different PCBs by using soldering or plug-in terminal
- * Approvals: UL/CUL/VDE/CE pending

SPECIFICATIONS

Electrical Rating	250V AC 5A(VDE) 125V AC 8A	Contact Material	Silver	
Insulation Resistance	50MΩ(initial)according toIEC512-2	Terminal	Soldering / plug-in type	
Mechanical Life	100,000 operations min	Quick-Connect Terminal	2.8 x 0.5mm	
Electrical Life	50,000 operations min	Wire Range	1x1.5mm ² max	
Electric Shock Protection Class	IEC 947-5-1	Cable Range	2x0.75mm ² /1x1.0mm ² Max	
Insulation Withstand Voltage	2000V AC60Hz 1min. between all terminals and ground	Lighting	LED/incandescent/neon	
Allowable Operating Frequency	Mechanical	20operations/min max.	Storage Temperature	-40°C~+70°C
	Electrical	10 operations/min max.	Operating Temperature	-25°C~+55°C
Actuating Force	2.0 kgf	Degree of Contamination	class II	
		Degree of Protection	IP65	

ORDER INFORMATION

MODEL FORMAT ADA16E6-R **1****2**-**3**1**4****5**

1**2** HEAD SHAPE

- 11 : Ø28*~31 (Illuminated)
Turn leverotary to unlock
- 22 : Ø24*~18 (Non-Illuminated)
Turn clockwise to unlock

3 CONTACT ARRANGEMENT

- A : 1NO/1NC+1NO/1NC (Illuminated)
- B : 1NO/1NC (Illuminated)
- C : 1NO/1NC+1NO/1NC(Non-Illuminated)
- D : 1NO/1NC (Non-Illuminated)

4 LAMPS

- O : Without lamps
- A : Incandescent 6V AC/DC 200mA
- B : Incandescent 14V AC/DC 80mA
- C : Incandescent 28V AC/DC 40mA
- D : Incandescent 48V AC/DC 25mA
- E : Incandescent 60V AC/DC 20mA
- F : Neon 110V AC
- G : Neon 220V AC
- H : LED 6V DC
- J : LED 12V DC
- K : LED 24V DC
- L : Incandescent 33V AC/DC 35mA
- M : Incandescent 6V AC/DC 40mA
- N : Incandescent 14V AC/DC 40mA

5 LENS COLOR

- R : Red

1**2**



ADA16-A



ADA16-B





ADA16-C



ADA16-D



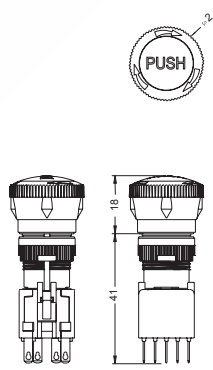
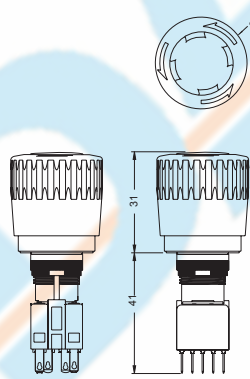
unit: mm

	Illuminated	Non-Illuminated
SHAPE		
DIMENSIONS	$\phi 28$	$\phi 24$
Color	R	R

HEAD SHAPE

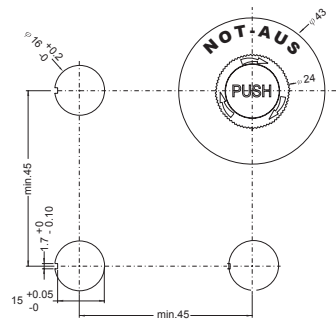
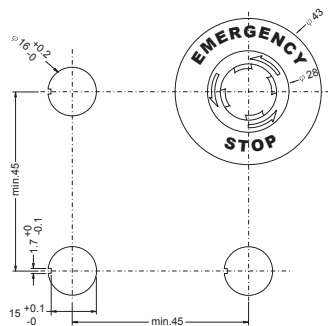
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ADA16E6-R22-C10 \square

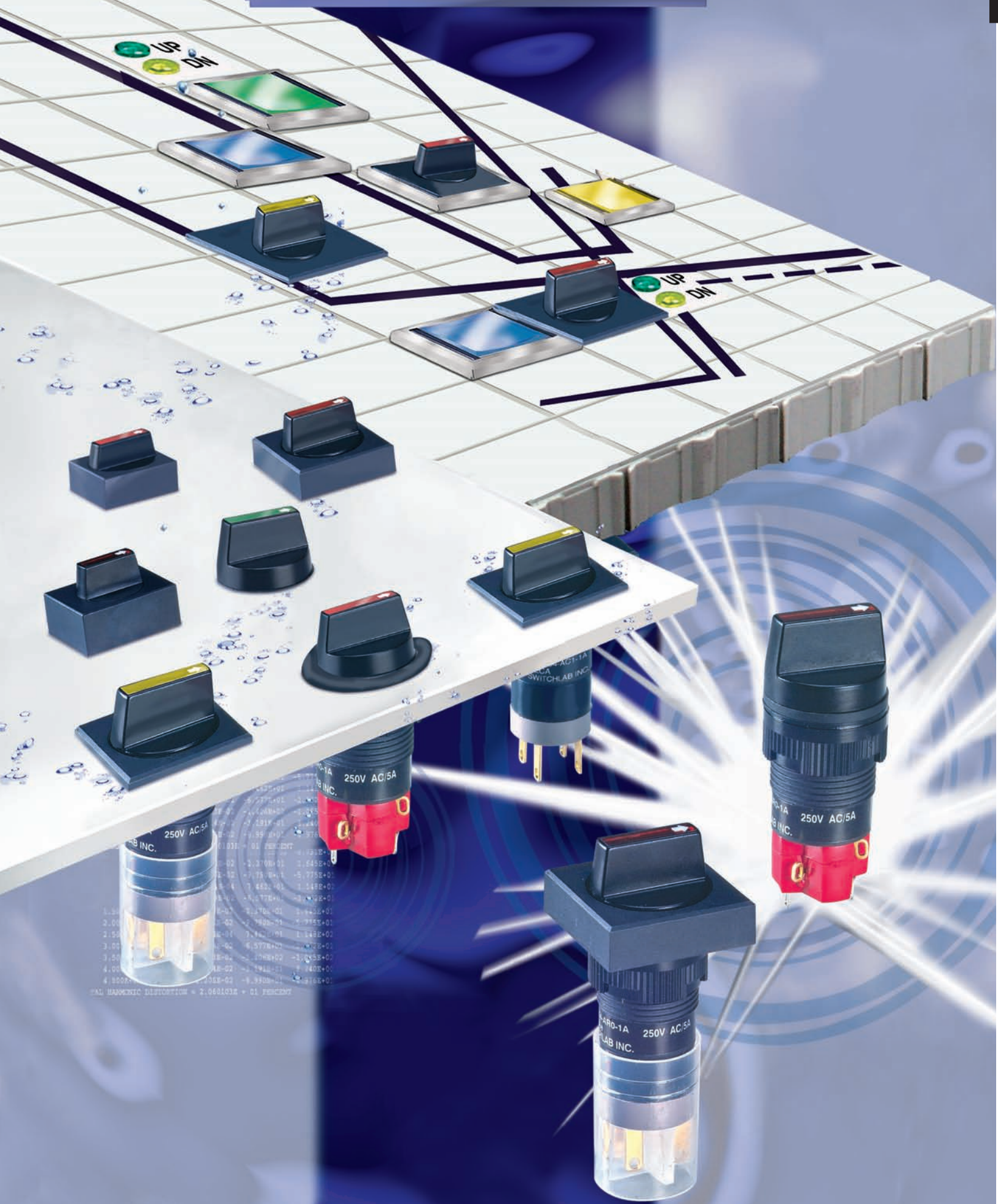


MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



Selector Switches



UP
DN

UP
DN

250V AC/5A
INC.

250V AC/5A
INC.

250V AC/5A
SWITCHLAB INC.

250V AC/5A
INC.

250V AC/5A
SWITCHLAB INC.

01 PERCENT
02 -3.270E+01 1.164E+01
03 -1.755E+01 -5.775E+01
04 7.650E+01 1.148E+01
05 -3.270E+01 3.440E+01
06 -1.755E+01 -7.755E+01
07 7.650E+01 1.148E+02
08 -3.270E+01 -3.055E+02
09 -1.755E+01 7.740E+00
10 7.650E+01 -9.990E+01
MAGNETIC DISCREPANCY = 2.06103E - 01 PERCENT



DESCRIPTION

- * Multiple designs in head shape to fit with different panels and easy installation, including the standard design, flange bezel design and flush mounting bezel.
- * Available Size: Rectangular 18 x 24mm
Square 18 x 18mm & 24 x 24mm
Round diameter ~ 18mm
- * Can fit with different panels such as Mosaic Panel.
- * Multiple colors optional. Customer can choose the lamp color depending on his demands.
- * With options of Incandescent, LED, and Neon lamp or without lamp.
- * With two options of soldering or plug-in pins for contact to be used in different PCBs
- * IP40 protection degree.
- * IP65 protection degree is also available.
- * Approvals: UL/CUL/VDE/CE

SPECIFICATIONS

Electric Rating		250V AC 5A(VDE) 125V AC 6A 250V DC 0.2A 24V DC 6A	Contact Material	Silver
Life Expectancy	Mechanical Momentary	250,000 operations min	Terminal	Soldering / plug-in type
	Electrical Momentary	5A/250 AV> 2.5 X 10 ⁴ operations 4A/250 AV> 6.0 X 10 ⁴ operations 2A/250 AV> 2.0 X 10 ⁵ operations 1A/250 AV> 4.0 X 10 ⁵ operations	Wire Range	2x0.8mm ² max
Insulation Withstand Voltage		2000V AC60Hz 1min. between all terminals and ground	Cable Range	2x0.75mm ² Max
Position		90±5°(2-position)	Lighting	LED/incandescent/neon
Motion Tolerance		<20 operation/min	Storage Temperature	-40°C~+85°C
			Operating Temperature	-25°C~+55°C
			Degree of Protection	IP40/IP65

ORDER INFORMATION

MODEL FORMAT AD **1**16C**2** - **3****4**1 - **5****6****7****8**

1 CONTACT TYPE

D : SOLDER
P : Plug-In(1a1b)

2 DEGREE OF PROTECTION

4 : IP40
6 : IP65

3 FUNCTION

M : MOMENTARY
A : ALTERNATE

4 HEAD SHAPE

A : STANDARD
C : FLANGE
S : SQUARE
T : RECTANGULAR

5 CONTACT ARRANGEMENT

1 : 1a1b
2 : 2a2b (Solder)
3 : 3a3b (Solder)
4 : 4a4b (Solder)

6 VARIOUS OPTIONS OF DIFFERENT SWITCH TYPE

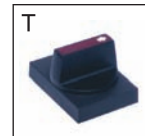
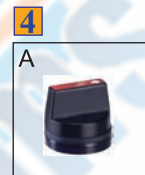
Alternate		Momentary
A	E	U

7 LAMPS

O : Without lamps
A : Incandescent 6V AC/DC 200mA
B : Incandescent 14V AC/DC 80mA
C : Incandescent 28V AC/DC 40mA
D : Incandescent 48V AC/DC 25mA
E : Incandescent 60V AC/DC 20mA
F : Neon 110V AC
G : Neon 220V AC
H : LED 6V DC
J : LED 12V DC
K : LED 24V DC
L : Incandescent 33V AC/DC 35mA
M : Incandescent 6V AC/DC 40mA
N : Incandescent 14V AC/DC 40mA

8 LENS COLOR

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







PLUG-IN



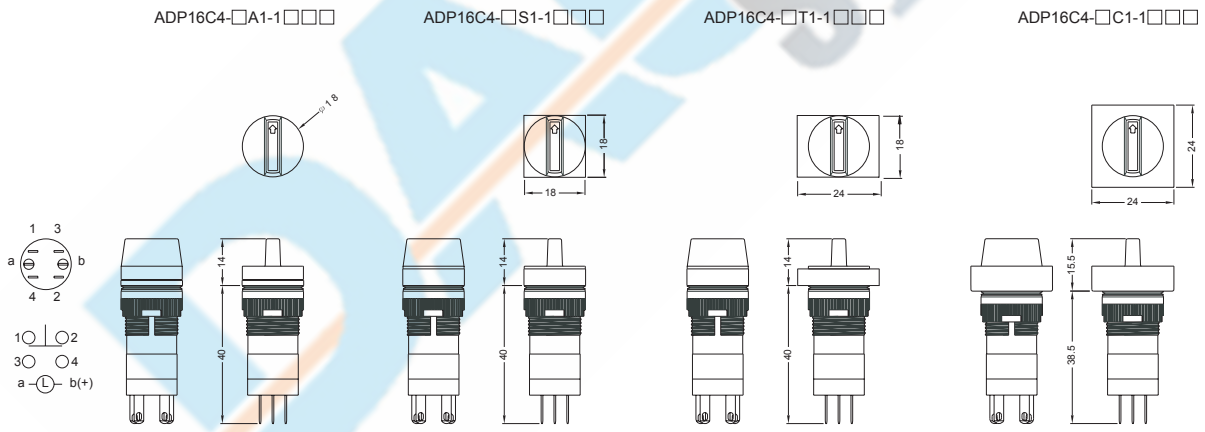
SOLDER



unit: mm

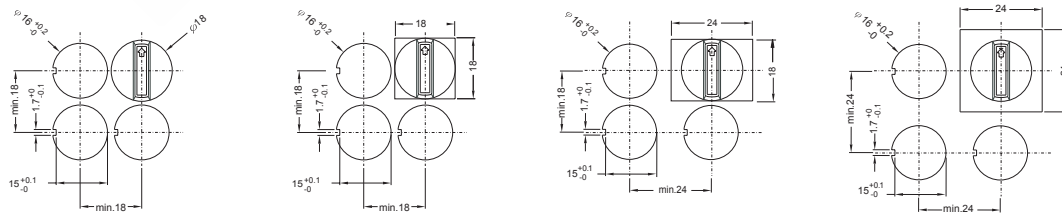
SHAPE				
DIMENSIONS	Ø 18	18x18	18x24	24x24
COLOR	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K

HEAD SHAPE







MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



unit: mm

SHAPE				
DIMENSIONS	Ø 18	18x18	18x24	24x24
COLOR	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K	B.G.R.W.Y.K

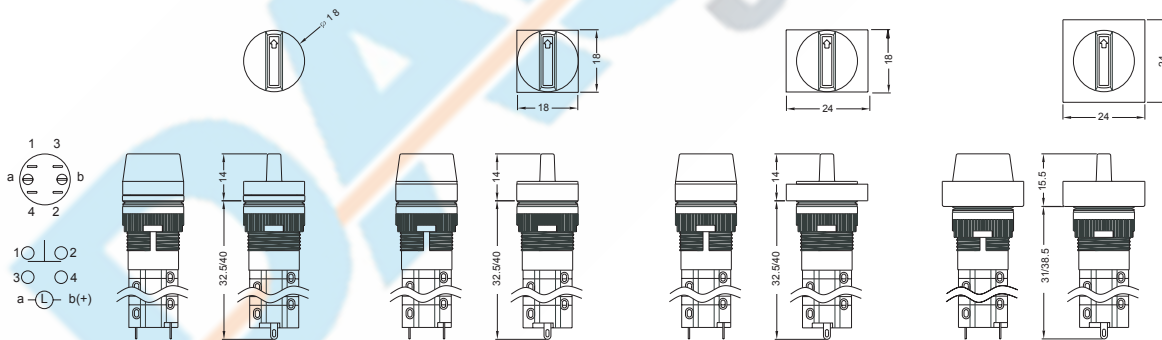
HEAD SHAPE

ADD16C4-□A1-□□□□

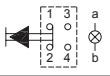
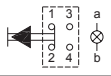
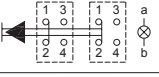
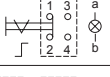
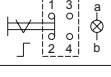
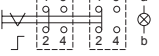
ADD16C4-□S1-□□□□

ADD16C4-□T1-□□□□

ADD16C4-□C1-□□□□



MOUNTING LENGTH

TYPE	SOLDERING		PLUG-IN		
momentary	SPST		A TYPE : 32.5 mm C TYPE : 31 mm S/T TYPE : 29 mm	SPST 	A TYPE : 40mm C TYPE : 39mm S/T TYPE : 36mm
	DPST		A TYPE : 40 mm C TYPE : 38.5 mm S/T TYPE : 36.5 mm		
alternate	SPST		A TYPE : 32.5 mm C TYPE : 31 mm S/T TYPE : 29 mm	SPST 	A TYPE : 40mm C TYPE : 39mm S/T TYPE : 36mm
	DPST		A TYPE : 40 mm C TYPE : 38.5 mm S/T TYPE : 36.5 mm		

Keylock Switches



INC.
AL HAM
1.500E+02
2.000E+02
2.500E+02
3.000E+02
3.500E+02
4.000E+02
4.500E+02
ALL MECHANIC DISTORTION = 2.961032E-01 PERCENT

DECA
AR0-1A
250V AC
CHLAB INC.

DP1EK
DECA
SWITCH



DESCRIPTION

- * Special design fits to different panels such as Mosaic panel, convenient to users to install to different devices.
- * The precise construction design enables the key operated in a long mechanical life under the normal environment.
- * Available Size: Rectangular 18 x 24mm
Square 18 x 18mm & 24 x 24mm
Round ~ 18mm
- * With both momentary & alternate functions, to be adapted to the practical demands.
- * Precise design in key construction to ensure the movements of insertion & withdrawal can be performed exactly.
- * IP40 protection degree. IP65 protection degree is also available.
- * Can be connected by either soldering or plug-in terminal.
- * Applied UL94 V0 high grade fire prevention plastic material.
- * Approvals: UL/CUL/VDE/CE

SPECIFICATIONS

Electric Rating		250V AC 5A(VDE) 125V AC 6A 250V DC 0.2A 24V DC 6A	Contact Material	Silver
			Terminal	Soldering / plug-in type
Life Expectancy	Mechanical Momentary	200,000 operations min	Wire Range	2x0.8mm ² max
	Electrical Momentary	5A/250 AV> 2.5 X 10 ⁴ operations 4A/250 AV> 6.0 X 10 ⁴ operations 2A/250 AV> 2.0 X 10 ⁵ operations 1A/250 AV> 4.0 X 10 ⁵ operations	Cable Range	2x0.75mm ² Max
Insulation Withstand Voltage		2000V AC60Hz 1min. between all terminals and ground	Lighting	LED/incandescent/neon
Position		90±5°(2-position)	Storage Temperature	-40°C~+85°C
Motion Tolerance		<20 operation/min	Operating Temperature	-25°C~+55°C
			Degree of Protection	IP40/IP65

ORDER INFORMATION

MODEL FORMAT AD **1**16K **2**-**3****4**0-**5****6**

1 CONTACT TYPE

D : SOLDER
P : PLUG-IN(1a1b)

2 DEGREE OF PROTECTION

4 : IP40
6 : IP65

3 FUNCTION

M : MOMENTARY
A : ALTERNATE

4 HEAD SHAPE

A : STANDARD
R : ROUND
S : SQUARE
T : RECTANGULAR

5 CONTACT ARRANGEMENT

1 : 1a1b
2 : 2a2b (Solder)
3 : 3a3b (Solder)
4 : 4a4b (Solder)

6 VARIOUS OPTIONS OF DIFFERENT SWITCH TYPE

Alternate		
A	C	E

Alternate	Momentary
F	U

Remark: "0" mark are un-removable position



PLUG-IN



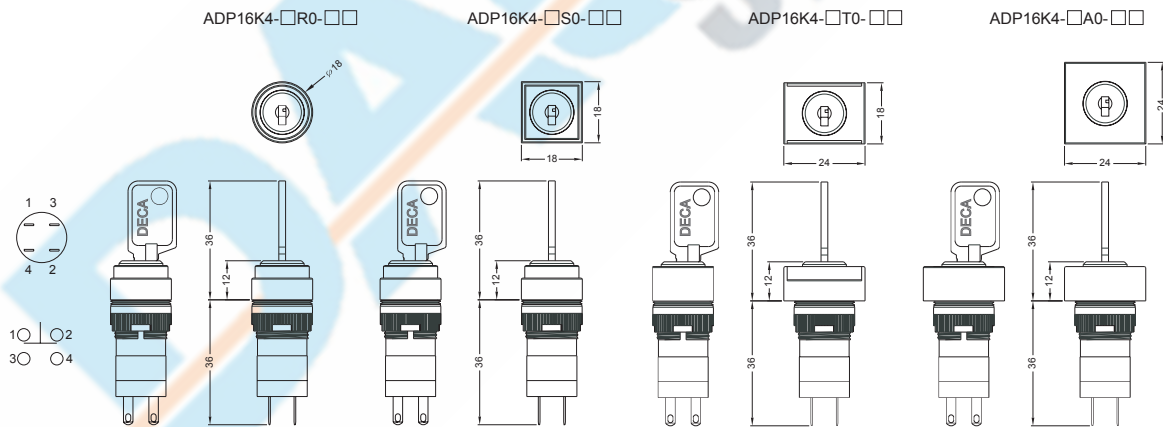
SOLDER



unit: mm

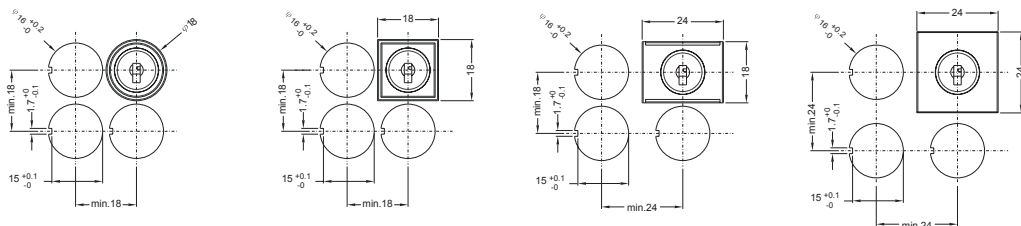
SHAPE				
DIMENSIONS	18	18x18	18x24	24x24

HEAD SHAPE







MOUNTING DIMENSIONS

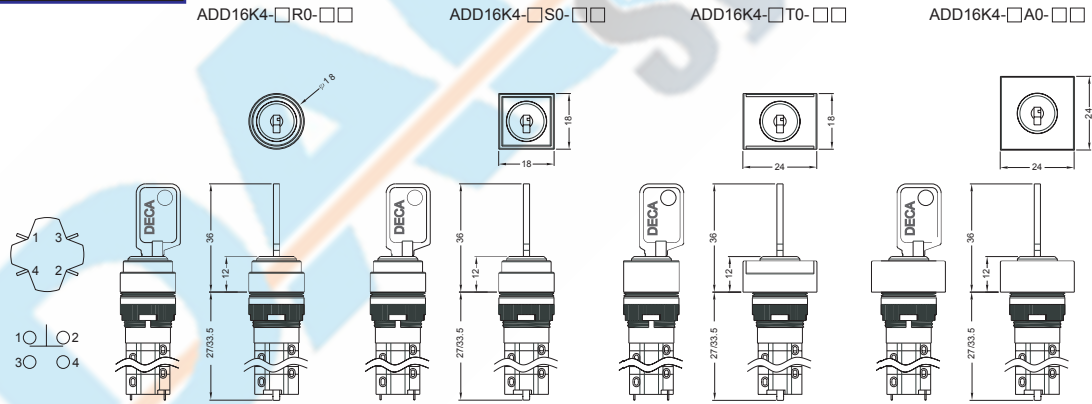
Panel Thickness 0.5 To 5.0





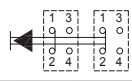


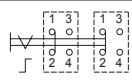
unit: mm

SHAPE				
DIMENSIONS	18	18x18	18x24	24x24

HEAD SHAPE



MOUNTING LENGTH

TYPE	SOLDERING		PLUG-IN			
momentary	SPST		STANDARD: 27mm	SPST		STANDARD: 36mm
	DPST		STANDARD: 33.5mm			
alternate	SPST		STANDARD: 27mm	SPST		STANDARD: 36mm
	DPST		STANDARD: 33.5mm			

Buzzer



1.000E+02	1.000E+01	1.000E+00	1.000E-01	1.000E-02	1.000E-03	1.000E-04	1.000E-05	1.000E-06	1.000E-07	1.000E-08	1.000E-09	1.000E-10	1.000E-11	1.000E-12	1.000E-13	1.000E-14	1.000E-15	1.000E-16	1.000E-17	1.000E-18	1.000E-19	1.000E-20	
2.000E+02	2.000E+01	2.000E+00	2.000E-01	2.000E-02	2.000E-03	2.000E-04	2.000E-05	2.000E-06	2.000E-07	2.000E-08	2.000E-09	2.000E-10	2.000E-11	2.000E-12	2.000E-13	2.000E-14	2.000E-15	2.000E-16	2.000E-17	2.000E-18	2.000E-19	2.000E-20	
3.000E+02	3.000E+01	3.000E+00	3.000E-01	3.000E-02	3.000E-03	3.000E-04	3.000E-05	3.000E-06	3.000E-07	3.000E-08	3.000E-09	3.000E-10	3.000E-11	3.000E-12	3.000E-13	3.000E-14	3.000E-15	3.000E-16	3.000E-17	3.000E-18	3.000E-19	3.000E-20	
4.000E+02	4.000E+01	4.000E+00	4.000E-01	4.000E-02	4.000E-03	4.000E-04	4.000E-05	4.000E-06	4.000E-07	4.000E-08	4.000E-09	4.000E-10	4.000E-11	4.000E-12	4.000E-13	4.000E-14	4.000E-15	4.000E-16	4.000E-17	4.000E-18	4.000E-19	4.000E-20	
5.000E+02	5.000E+01	5.000E+00	5.000E-01	5.000E-02	5.000E-03	5.000E-04	5.000E-05	5.000E-06	5.000E-07	5.000E-08	5.000E-09	5.000E-10	5.000E-11	5.000E-12	5.000E-13	5.000E-14	5.000E-15	5.000E-16	5.000E-17	5.000E-18	5.000E-19	5.000E-20	
6.000E+02	6.000E+01	6.000E+00	6.000E-01	6.000E-02	6.000E-03	6.000E-04	6.000E-05	6.000E-06	6.000E-07	6.000E-08	6.000E-09	6.000E-10	6.000E-11	6.000E-12	6.000E-13	6.000E-14	6.000E-15	6.000E-16	6.000E-17	6.000E-18	6.000E-19	6.000E-20	
7.000E+02	7.000E+01	7.000E+00	7.000E-01	7.000E-02	7.000E-03	7.000E-04	7.000E-05	7.000E-06	7.000E-07	7.000E-08	7.000E-09	7.000E-10	7.000E-11	7.000E-12	7.000E-13	7.000E-14	7.000E-15	7.000E-16	7.000E-17	7.000E-18	7.000E-19	7.000E-20	
8.000E+02	8.000E+01	8.000E+00	8.000E-01	8.000E-02	8.000E-03	8.000E-04	8.000E-05	8.000E-06	8.000E-07	8.000E-08	8.000E-09	8.000E-10	8.000E-11	8.000E-12	8.000E-13	8.000E-14	8.000E-15	8.000E-16	8.000E-17	8.000E-18	8.000E-19	8.000E-20	
9.000E+02	9.000E+01	9.000E+00	9.000E-01	9.000E-02	9.000E-03	9.000E-04	9.000E-05	9.000E-06	9.000E-07	9.000E-08	9.000E-09	9.000E-10	9.000E-11	9.000E-12	9.000E-13	9.000E-14	9.000E-15	9.000E-16	9.000E-17	9.000E-18	9.000E-19	9.000E-20	
1.000E+03	1.000E+02	1.000E+01	1.000E+00	1.000E-01	1.000E-02	1.000E-03	1.000E-04	1.000E-05	1.000E-06	1.000E-07	1.000E-08	1.000E-09	1.000E-10	1.000E-11	1.000E-12	1.000E-13	1.000E-14	1.000E-15	1.000E-16	1.000E-17	1.000E-18	1.000E-19	1.000E-20

TOTAL HARMONIC DISTORTION = 2.0691018 * 01 PERCENT

DESCRIPTION

- * Multiple designs to fit with different panel with options for continuous or intermittent tone.
- * Available Size : Rectangular 18x24 mm
Square 18x18 mm
Round diameter : \sim 18mm
- * IP 40 protection degree enable the device to be used in equipments of various fields.
- * The sound pressure 80 db at a distance of 0.1m.
- * Approvals: UL/CUL/VDE/CE pending

**SPECIFICATIONS**

Rated Voltage	DC12~24V	Terminal	Soldering type
Rated Current	min100mA~max3A	Wire Range	1x1.5mm ² max
Electrical Life	1000hr(continuous tone)	Cable Range	2x0.75mm ² /1x1.0mm ² Max
Sound Pressure	80dB(continuous tone)	Storage Temperature	-40°C~+70°C
Sound Frequency	2 \pm 0.5KHzr	Operating Temperature	-25°C~+55°C
Flickering Cycle	55cycles \pm 10%(Intermittent tone)	Degree of Protection	IP40

ORDER INFORMATION

MODEL FORMAT ADP16B **1**-0**2**0-0**3****4**0

1 DEGREE OF PROTECTION

4 : IP40

2 HEAD SHAPE

R : ROUND

S : SQUARE

T : RECTANGULAR

3 VOICE

1 : CONTINUOUS TONE

2 : INTERMITTENT TONE

4 CURRENT RATING

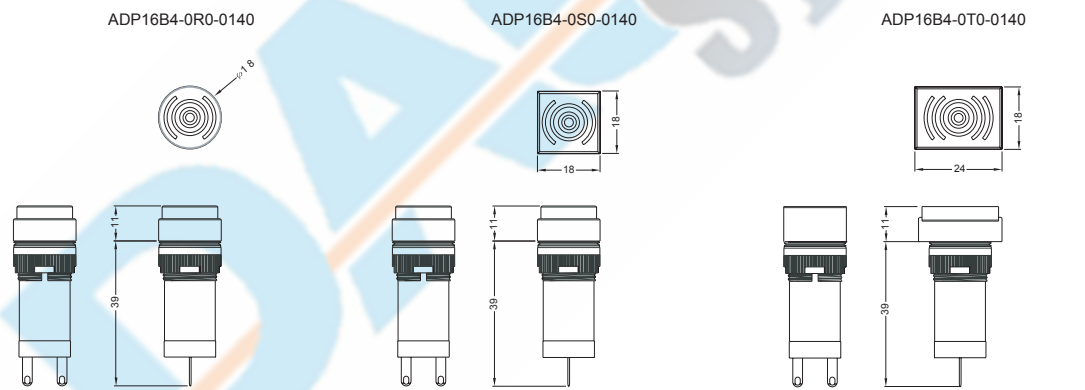
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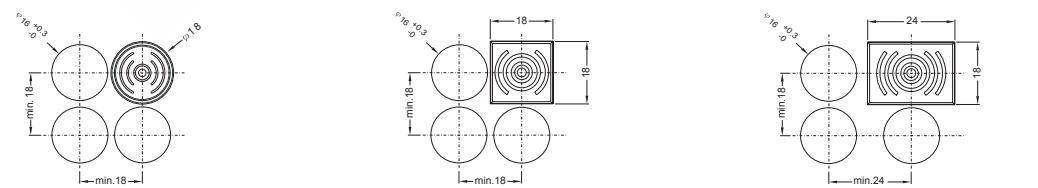
unit: mm

SHAPE			
DIMENSIONS	ϕ 18	18x18	18x24

HEAD SHAPE



MOUNTING DIMENSIONS



Pilot Indicator



SWITCHLAB INC.

Order No.	Part No.	Description	QTY
01	1.14E+01	1.14E+01	1.14E+01
02	1.14E+01	1.14E+01	1.14E+01
03	1.14E+01	1.14E+01	1.14E+01
04	1.14E+01	1.14E+01	1.14E+01
05	1.14E+01	1.14E+01	1.14E+01
06	1.14E+01	1.14E+01	1.14E+01
07	1.14E+01	1.14E+01	1.14E+01
08	1.14E+01	1.14E+01	1.14E+01
09	1.14E+01	1.14E+01	1.14E+01
10	1.14E+01	1.14E+01	1.14E+01
11	1.14E+01	1.14E+01	1.14E+01
12	1.14E+01	1.14E+01	1.14E+01
13	1.14E+01	1.14E+01	1.14E+01
14	1.14E+01	1.14E+01	1.14E+01
15	1.14E+01	1.14E+01	1.14E+01
16	1.14E+01	1.14E+01	1.14E+01
17	1.14E+01	1.14E+01	1.14E+01
18	1.14E+01	1.14E+01	1.14E+01
19	1.14E+01	1.14E+01	1.14E+01
20	1.14E+01	1.14E+01	1.14E+01

TOTAL HARMONIC DISTORTION * 2.0601018 * 01 PERCENT



DESCRIPTION

- * Wider light distribution enables this device to be seen within wider range.
- * Available Size: Rectangular 18x24mm
Square 18 x 18mm
Round \sim 18mm
- * Color lens available : Red, Yellow, Green; engraving on lens or marking available on request
- * Illuminated by LED lamp.
- * IP40 protection degree.
- * Applied UL94 V0 high grade fire prevention plastic material.
- * Approvals: UL/CUL/VDE/CE pending



SPECIFICATIONS

Rated Voltage	AC110V / 220V	Cable Range	2x0.75mm ² / 1x1.0mm ² Max
Rated Current	min100mA~max3A	Storage Temperature	-40°C~+85°C
Electrical Life	3000hr(continuous tone)	Operating Temperature	-25°C~+55°C
Terminal	Soldering type	Degree of Protection	IP40
Wire Range	1x1.5mm ² max		

ORDER INFORMATION

MODEL FORMAT ADP16F **1**-0**2**0-E1T **3**

1 DEGREE OF PROTECTION

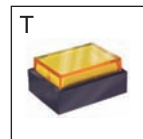
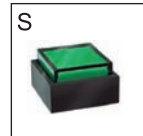
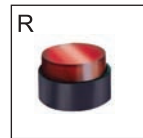
- 4 : IP40
- 6 : IP65

2 HEAD SHAPE

- R : ROUND
- S : SQUARE
- T : RECTANGULAR

3 LENS COLOR

- G : GREEN
- R : RED
- Y : YELLOW



unit: mm

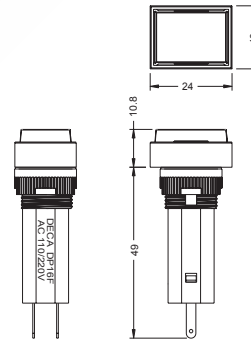
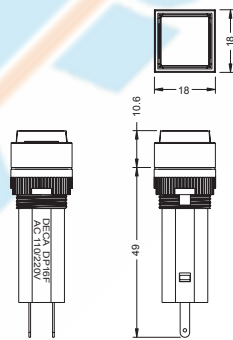
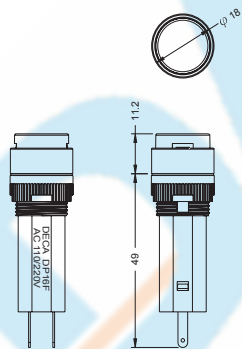
SHAPE			
DIMENSIONS	ϕ 18	18x18	18x24

HEAD SHAPE

ADP16F4-0R0-E1T

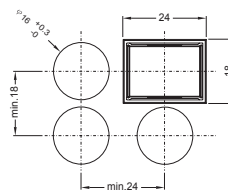
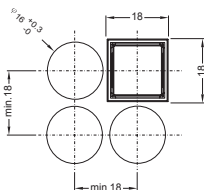
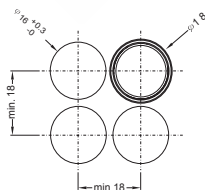
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ADP16F4-0T0-E1T

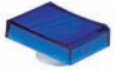

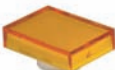
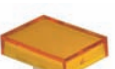
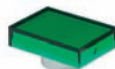
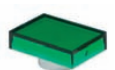
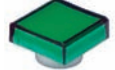
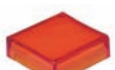

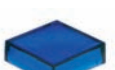




MOUNTING DIMENSIONS

Panel Thickness 0.5 To 5.0



Accessories

Category	Shape	Color	Parts No	Illustration	Category	Shape	Color	Parts No	Illustration
ADA16 Rectangular Lens	Standard (Concave)	blue	60-002-01		ADA16 Rectangular Lens (For Neon Lamp)	Standard (Concave)	blue	60-002-011	
		green	60-002-02				green	60-002-021	
		orange	60-002-03				orange	60-002-031	
		red	60-002-04				red	60-002-041	
		white	60-002-05				white	60-002-051	
		yellow	60-002-06				yellow	60-002-061	
	Full Cover (Flate)	blue	60-002-21			Full Cover (Flate)	blue	60-002-211	
		green	60-002-22				green	60-002-221	
		orange	60-002-23				orange	60-002-231	
		red	60-002-24				red	60-002-241	
		white	60-002-25				white	60-002-251	
		yellow	60-002-26				yellow	60-002-261	
	Indicator (Flat)	blue	60-002-11			Indicator (Flat)	blue	60-002-111	
		green	60-002-12				green	60-002-121	
		orange	60-002-13				orange	60-002-131	
		red	60-002-14				red	60-002-141	
		white	60-002-15				white	60-002-151	
		yellow	60-002-16				yellow	60-002-161	
ADA16 Square Lens	Standard (Concave)	blue	60-003-01		ADA16 Square Lens (For Neon Lamp)	Standard (Concave)	blue	60-003-011	
		green	60-003-02				green	60-003-021	
		orange	60-003-03				orange	60-003-031	
		red	60-003-04				red	60-003-041	
		white	60-003-05				white	60-003-051	
		yellow	60-003-06				yellow	60-003-061	
	Full Cover (Flate)	blue	60-003-21			Full Cover (Flate)	blue	60-003-211	
		green	60-003-22				green	60-003-221	
		orange	60-003-23				orange	60-003-231	
		red	60-003-24				red	60-003-241	
		white	60-003-25				white	60-003-251	
		yellow	60-003-26				yellow	60-003-261	
	Indicator (Flat)	blue	60-003-11			Indicator (Flat)	blue	60-003-111	
		green	60-003-12				green	60-003-121	
		orange	60-003-13				orange	60-003-131	
		red	60-003-14				red	60-003-141	
		white	60-003-15				white	60-003-151	
		yellow	60-003-16				yellow	60-003-161	

Accessories

Category	Shape	Color	Parts No	Illustration	Category	Shape	Color	Parts No	Illustration		
ADA16 Round Lens	Standard (Concave)	blue	60-001-01		ADA16 Round Lens (For Neon Lamp)	Standard (Concave)	blue	60-001-011			
		green	60-001-02				green	60-001-021			
		orange	60-001-03				orange	60-001-031			
		red	60-001-04				red	60-001-041			
		white	60-001-05				white	60-001-051			
		yellow	60-001-06				yellow	60-001-061			
	Indicator (Flat)	blue	60-001-11			Indicator (Flat)	blue	60-001-111			
		green	60-001-12				green	60-001-121			
		orange	60-001-13				orange	60-001-131			
		red	60-001-14				red	60-001-141			
		white	60-001-15				white	60-001-151			
		yellow	60-001-16				yellow	60-001-161			
ADA16 □ 24 Lens	Full Edged Protection (Flat)	blue	60-017-11		ADA16 □ 24 Lens (For Neon Lamp)	Full Edged Protection (Flat)	blue	60-017-111			
		green	60-017-12				green	60-017-121			
		orange	60-017-13				orange	60-017-131			
		red	60-017-14				red	60-017-141			
		white	60-017-15				white	60-017-151			
		yellow	60-017-16				yellow	60-017-161			
ADA16C/ ADD16C/ ADP16C Lever	Standard	blue	60-016-11		Lamps	Incandescent (AC/AD)	6V 40mA	50-004-01			
		green	60-016-12				6V 200mA	50-004-02			
		red	60-016-14				14V 40mA	50-004-03			
			white				60-016-15	14V 80mA		50-004-04	
							60-016-16	28V 40mA		50-004-05	
		For Rectangular /Square Type	black				60-016-17			48V 25mA	50-004-06
							60V 20mA			50-004-07	
	yellow		60-016-21	33V 35mA			50-004-08				
			blue	60-016-21		110V green	50-004-11				
			green	60-016-22		110V red	50-004-12				
	black		red	60-016-24			220V green		50-004-13		
				60-016-25			220V red		50-004-14		
		white	60-016-26				6V green	50-004-16			
			yellow				60-016-27	6V red	50-004-17		
6V yellow					50-004-18						
black		black	60-016-27		12V green		50-004-19				
			12V red		50-004-20						
	12V yellow		50-004-21								
	24V green		50-004-22								
			24V red	50-004-23							
			24V yellow	50-004-24							

Accessories

Category	Description	Parts No	Illustration	Category	Description	Parts No	Illustration	
ADA16K ADD16K ADP16K Spare Key	Standard	60-024-01		ADA16E Yellow Legent Plate	<i>English</i> Emergency stop Identity plate	60-025-01		
	Custom	NO. 002			60-024-02	<i>German</i> Emergency stop Identity plate	60-025-02	
		NO. 003			60-024-03			
		NO. 004			60-024-04			
		NO. 005			60-024-05			
NO. 006	60-024-06							
ADA16 PCB Socket Mounting	Socket insert into PCB board is available for socket type	60-015-01		Flange Type Front Bezel	Square 24 X 24	60-018-07		
ADD16/ADP16 PCB Socket Mounting	Socket insert into PCB board is available for socket type	50-015-01		ADP16C Flush Mounted Type Square Bezel	Fit panel thickness 0.5-5mm	60-017-07		
Lamp Extractor	Removing lamp tool	50-016		ADA16S Flush Mounted Type Rectangular Bezel	Fit panel thickness 0.5-5mm	60-022-07		
Blanking Plate Block	PVC stopper to stuff the superfluous hole of the panel board	50-013-01			Fit panel thickness 3-7mm	60-022-17		
Connector	Insulation Socket 2.8X0.5mm	50-014-01			Fit panel thickness 6-10mm	60-022-27		
Mounting rench	Use this for tightening the switch in the mounting hole	50-006-01		ADA16S Flush Mounted Type Square Bezel	Fit panel thickness 0.5-5mm	60-023-07		
Mounting rench	Use this for tightening the switch in the mounting hole	BS04-022			Fit panel thickness 3-7mm	60-023-17		
Lens Removing	Use this for replaced the fitting color lens	50-007-01			Fit panel thickness 6-10mm	60-023-27		
ADP16 Isolation Cover	Protective Cover	BS05-004		ADA16S Flush Mounted Type Round Bezel	Fit panel thickness 0.5-5mm	60-021-07		
Fixing Nut	Fixing housing on panel	BS04-018			Fit panel thickness 3-10mm	60-021-17		
Lamp Fixing	Fixing lamp tool	60-026-01						



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	開關型號 Illuminated Pushbutton Switch, Model No.
	模組產品型號 Interface Products, Model No.
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