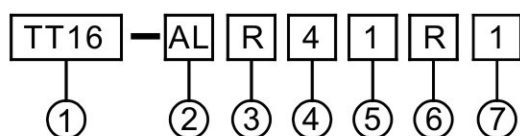


MODEL DESIGNATION



Designation	Signal	Description
1. Mounting Hole	TT16	16m/m Series
2. Type	AL ML PL	Illuminated Push Button(Alternate)(LED lamp) Illuminated Push Button(Momentary)(LED lamp) Pilot lamp(LED lamp)
3. Shape	R S L	Round Square Rectangular
4. Operator Protection	4 6	IP40 IP65
5. Voltage	1 2 5 7 9	110VAC LED lamp 220V AC LED lamp 6V LED lamp 24V LED lamp 12V LED lamp
6. Lens Color	R G O	Red Green Yellow
7. Contact Blocks	1 2	1a1b(1 No 1NC) 2a2b(2 No 2NC)

CHARACTERISTICS

Contact resistance	50mΩ max.(initial)
Insulation resistance	100MΩ min. (at 500VDC)
Dielectric strength	1000VAC,50/60Hz for 1 minute between non-continuous terminals 2000VAC,50/60Hz for 1 minute between current-carrying part and ground
Vibration	Mechanical durability:10 to 55Hz 1.5mm double amplitude
Shock	Mechanical durability: Approx.500m/sec ² (approx.50G's) Malfunction durability: Approx.500m/sec ² (approx.50G's)
Ambient operating temperature	Operating:-25°C to 55°C Storage:-30°C to 80°C
Humidity	45% to 80% RH
Mechanical Life (min)	Momentary:2,000,000 Alternate:250,000
Electrical Life (min)	Momentary:100,000 (1800 operations/hour) Alternate:100,000 (1200 operations/hour)

RATING(CONTACT)

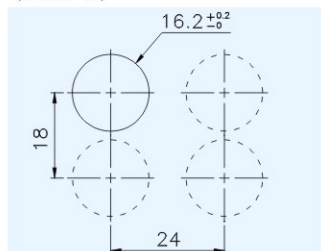
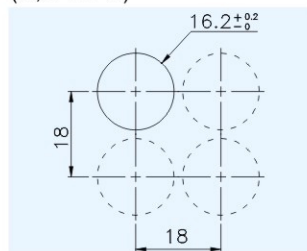
Rated insulation voltage	250VAC	125VAC
Rated continuous current(A)	3A	5A
Rated operating current(A)		
AC	DC	
Voltage	AC13	AC12
110V	0.7A	1A
220V	0.5A	0.5A
12V	0.7A	1A
24V	0.7A	1A

AC13/DC13: Inductive load; AC12/DC12: Resistivw load

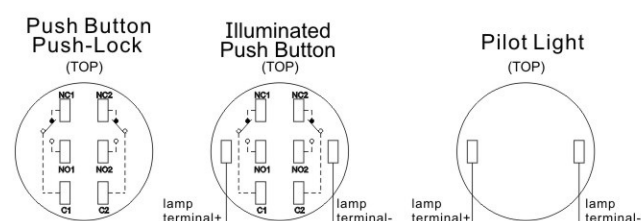
PANEL CUT-OUT

(R,S TYPE)

(L TYPE)



TERMINAL ARRANGEMENT



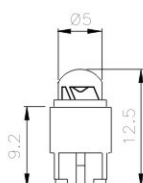
LAMP DESIGNATION

Lamp Type	Signal	Rated Voltage	Signal	Operating Voltage	Rated Current	Color Code	Signal	Designation
LED	TL	6V DC	6	6V DC	20mA	Red Blue Green Orange White	R BL G O W	TL - 6 R
		12V DC	12	12V DC	20mA			
		24V DC	24	24V DC	20mA			
		110V AC	110	110V AC	2mA			
		220V AC	220	220V AC	2mA			

● Designation need to be completed according to signals.

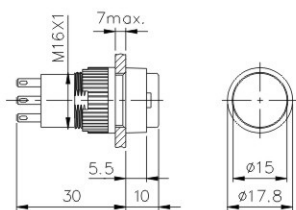
LAMP DIMENSIONS (For TT16)

LED TL-□□

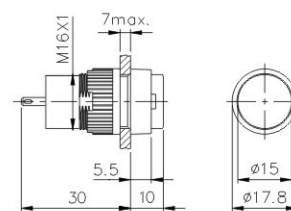


DIMENSIONS

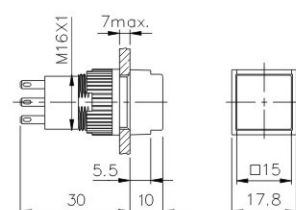
TT16-ALR/MLR



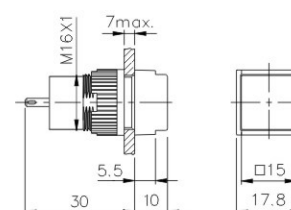
TT16-PLR



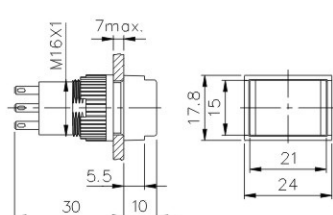
TT16-ALS/MLS



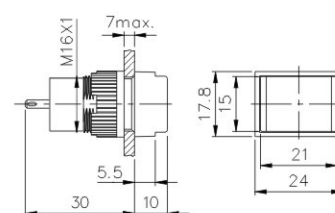
TT16-PLS



TT16-ALL/MLL

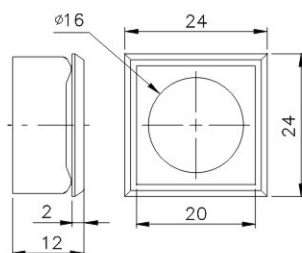


TT16-PLL

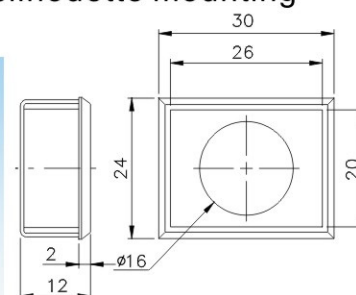


ACCESSORIES

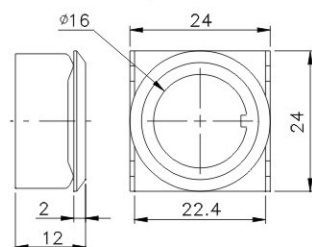
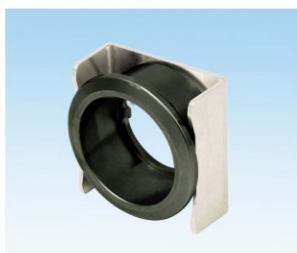
Square flush silhouette mounting
TT16-FS



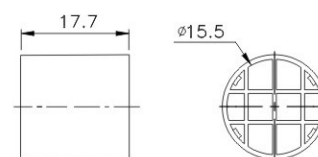
Rectangular flush silhouette mounting
TT16-FL



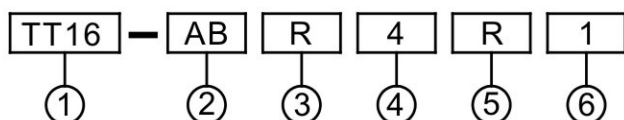
Round flush silhouette mounting
TT16-FR



Terminal Cover
TT16-TC



MODEL DESIGNATION



CHARACTERISTICS

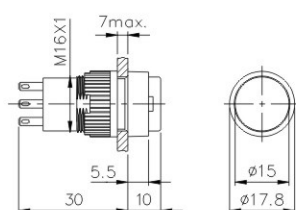
Designation	Signal	Description
1. Mounting Hole	TT16	16mm/m Series
2. Type	AB	Push Button (Alternate)
	MB	Push Button (Momentary)
	MM	Push Button (Momentary) (Mushroom Head)
	BK	Push-lock Turn-reset
	BKL	Push-lock Turn-reset (Mushroom Head)
3. Shape	R	Round
	S	Square
	L	Rectangular
4. Operator Protection	4	IP40
	6	IP65
5. Lens Color	R	Red
	G	Green
	O	Orange
	W	White
	BL	Blue
	B	Black
6. Contact Blocks	1	1a1b
	2	2a2b

●BK·BKL Only Round and Red.

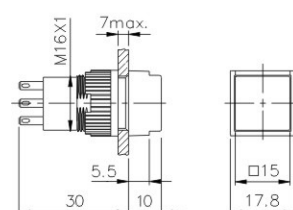
Contact resistance	50mΩ max.(initial)
Insulation resistance	100MΩ min. (At 500VDC)
Dielectric strength	1000VAC,50/60 Hz for 1 minute between non-continuous terminals 2000VAC,50/60 Hz for1 minute current-carrying part and ground
Vibration	Mechanical durability:10 to 55Hz 1.5mm double amplitude
Shock	Mechanical durability: Approx:500m/sec ² (approx.50G's) Malfunction durability: Approx.500m/sec ² (approx.50G's)
Ambient operating temperature	Operating:-25°C to 55°C Storage:-30°C to 80°C
Humidity	45% to 80% RH
Mechanical Life (min)	Momentary:2,000,000 Alternate/BKR:250,000
Electrical Life (min)	Momentary:100,000 (1800 operations/hour) Alternate/BKR:100,000 (1200 operations/hour)

DIMENSIONS

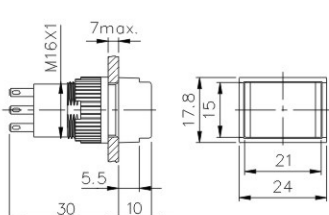
TT16-ABR/MBR



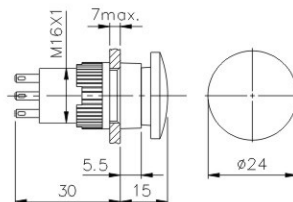
TT16-ABS/MBS



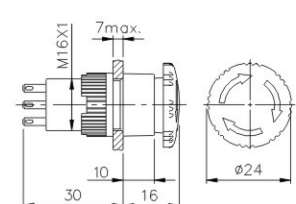
TT16-ABL/MBL



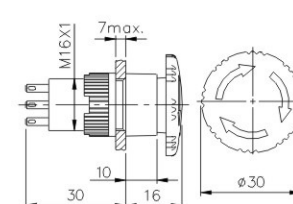
TT16-MMR



TT16-BKR



TT16-BKLR



MODEL DESIGNATION

TT16	—	KS	R	4	B	1	1	1	A
①		②	③	④	⑤	⑥	⑦	⑧	⑨

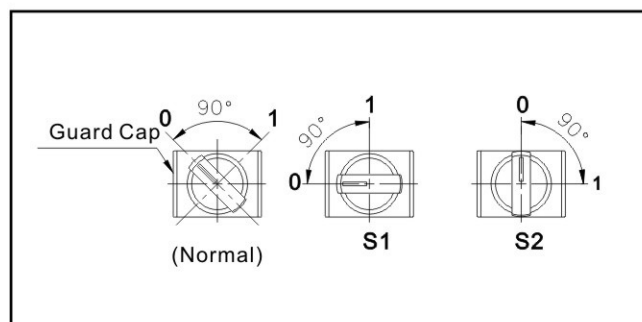
Designation	Signal	Description
1. Mounting Hole	TT16	16m/m Series
2. Type	SS KS	Knob Operator Key Operator
3. Shape	R S L	Round Square Rectangular
4. Operator Protection	4 6	IP40 IP65
5. Color	R G B	Red Green Black
6. Positions	1 2 7 8	0 1 90° 2-Position 0 1 90° 2-Position Spring return from right 1 0 2 90° 3-Position 1 0 2 90° 3-Position Spring return from right

● KSR/KSS/KLS Only Black.

KEY WITHDRAWABLE

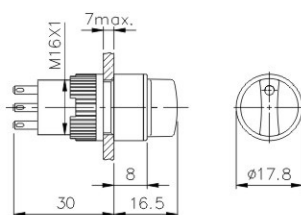


Designation	Signal	Description
6. Positions	9 0	1 0 2 90° 3-Position Spring return from left 1 0 2 90° 3-Position 2-Way spring return
7. Type of Contact Blocks Fitted	1 2	2-Position 3-Position 1a1b 2a2b 1a1b 0 1a1b
8. Key withdrawable	1 2 3 4 5	0 1 0.1 Key withdrawable 0 0 Key withdrawable 2-Position 1 Key withdrawable 1 0 2 0.1.2 Key withdrawable 3-Position 0 Key withdrawable
9. Key No.	A B C	331 311 131

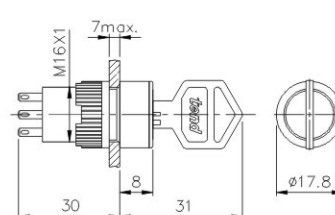


DIMENSIONS

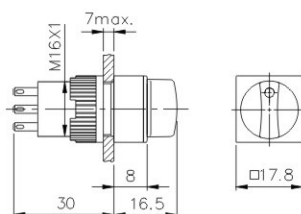
TT16-SSR



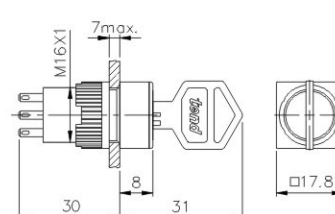
TT16-KSR



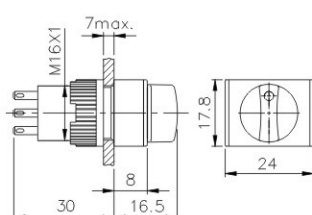
TT16-SSS



TT16-KSS



TT16-SSL



TT16-KSL

