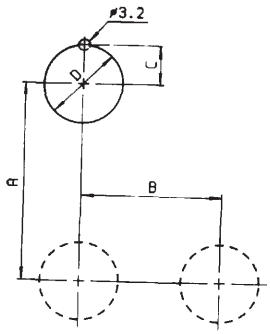
ø22 / ø25 / ø30 SERIES CONTROL COMPONENTS

IEC144
IP65

The upper base and contact block of this series of control components are detachable. IP65 (IEC144), the protection structure for this series except Twin-Touch push button (IP40), makes the components waterproof, oiltight, dustproof and suitable for use in worse environment.

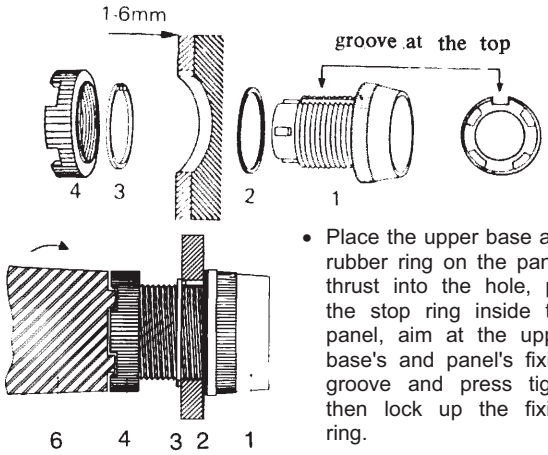
PANEL CUT-OUT
ø22/ø25/ø30 Series



DIMENSIONS

Series		Ø22	Ø25	Ø30
C		11.1	12.7	15.2
D		22.2	25.5	30.5
A	Standard spacing (Round type, Square type)	45 min.	45 min.	45 min.
	Lever operator selector	50	50	50
	Twin-Touch push button	59	59	59
	Metal plate	45	45	50
B	Standard spacing (Round type, Square type)	30	30	40
	Lever operator selector	45	45	50
	Twin-Touch push button	36	36	36
	Metal plate	31	31	40
	037 Mushroom	38	38	40

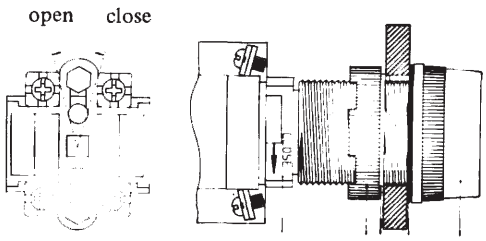
MOUNTING METHOD



- Place the upper base and rubber ring on the panel, thrust into the hole, put the stop ring inside the panel, aim at the upper base's and panel's fixing groove and press tight, then lock up the fixing ring.

1	2	3	4	5	6
upper base	rubber ring	stop ring	fixing ring	contact block	fixing instrument

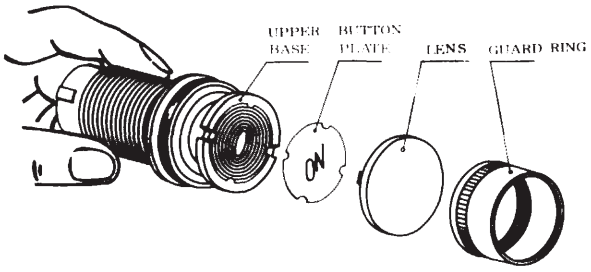
CONTACT BLOCK'S ASSEMBLY AND DISASSEMBLY



- Put the contact block in the corresponding positions, one large the other small, on the upper base after the latter's fixed. Turn in the arrowed direction of "Close" and it's fixed. In disassembling, just turn in the arrowed direction of "Open".

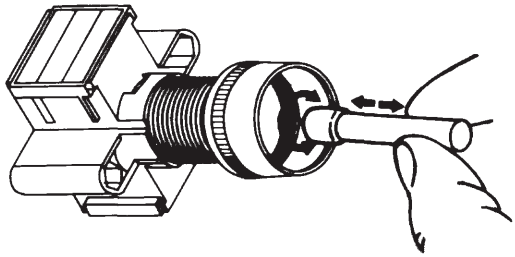
Indication of letters and symbols

Transparent printing paper (types: see p. 20)

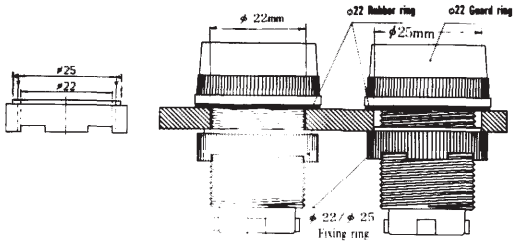


Method to replace lamp

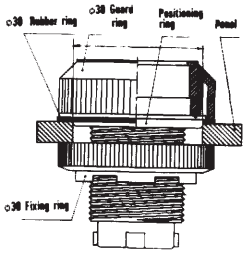
Put the fixing-disassembling tool into the lamp, turn clockwise and the lamp is fixed. If counter-clockwise, the lamp is disassemblinged.



ø22mm/ø25mm series are of same dimension and with common fixing ring.



The assembly method for ø30mm series



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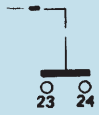
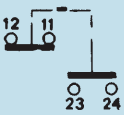
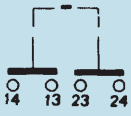
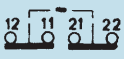
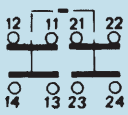
■ CONTACT RATING

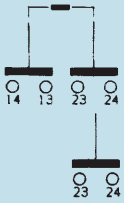
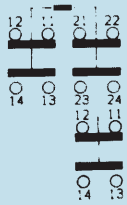
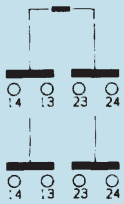
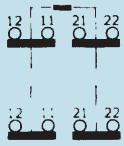
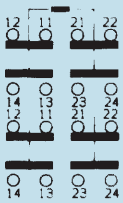
AC	Inductive load	AC125V	AC250V	AC440V	AC600V	DC	Inductive load	DC125V	DC250V	DC380V
		6A	4A	2A	1A			0.5A	0.2A	0.1A
	Resistive load	10A	6A	4A	1.5A		Resistive load	2A	0.6A	0.2A

■ CHARACTERISTICS

Ambient temperature	-20°C~+60°C	
Humidity	45 ~ 85% RH	
Contact resistance	50mΩ max. (initial value)	
Insulation resistance	100mΩ min. (at 500 VDC)	
Dielectric strength	2500VAC, 50/60HZ for 1 minute	
Service' life	Mechanically	**Push Button/Illuminated** Push Button (Momentary) 3,000,000, Others 500,000
	Electrically	500,000 operations

■ STANDARD CONTACT BLOCKS

Type	TC-1A	TC-1B	TC-1C	TC-2A	TC-2B	TC-2C
Contact	1a	1b	1a1b	2a	2b	2a2b
Contact Arrangement						

Type	TC-3A	TC-3B	TC-3C	TC-4A	TC-4B	TC-4C
Contact	3a	3b	3a3b	4a	4b	4a4b
Contact Arrangement						

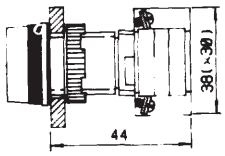
■ STANDARD TYPES OF CONTACT BLOCK AND ASSEMBLY METHOD.

Short contact block is available in 1a, 1b, 1a1b, 2a, and 2b. The contact may be increased to 2a2b by replacing the short block with the long one. If more contacts are needed, just add the short one to the long one (The short one is not designed for being added by other block at its rear end). 3a, 3b, 3a3b, 4a, and 4b will be available with one-long-one-short blocks. By replacing the short block with another long one and becoming two-long blocks, 4a4b will be obtainable.

■ STANDARD CONTACT BLOCKS DIMENSIONS

TC-1A-TC-1B-TC-1C
TC-2A • TC-2B

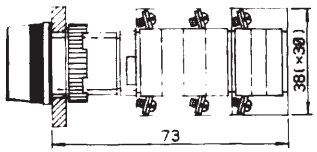




TC-3A • TC-3B • TC-3C TC-4A - TC-4B

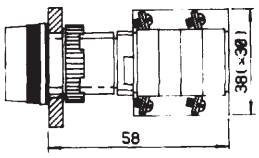
M3x44 SCREW 2PCS.
M3 NUT 2PCS.





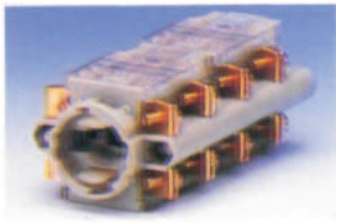
TC-2C

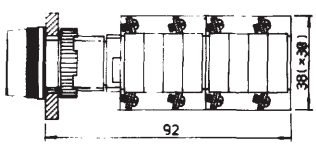




TC-4C

M3x55 SCREW 2PCS.
M3 NUT 2PCS.





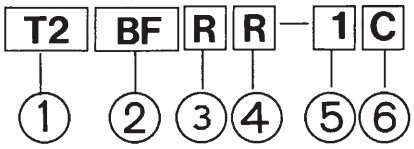
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PUSH BUTTON SWITCH (ø22 / ø25 / ø30)

IEC144 P65

The contact block of this series of switches is standard. See page 2 for types, drawing of contacts and assembly dimension.

■ MODEL DESIGNATION



Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	BF BL BM BA BB BK BT PB	Flat Head Long Head Mushroom Head Long Head (Alternate) Mushroom Head (Alternate) Push-Lock Twin-Touch Simple

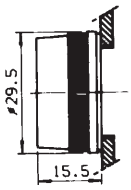
Designation	Signal	Description
3. Shape	R S L	Round Square Rectangular
4. Lens Color	R G Y W B BL	Red Green Yellow White Black Blue
5. No. of Contact Blocks Fitted	1-4	1-4
6. Type of Contact Blocks fitted	A B C	1a 1b 1a1b

1. The upper base and contact block in simple type are of one unit, available with 1a1b contact, Ø22mm/Ø25mm fixing hole, round type only.
2. The mounting holes of square series are Ø22mm/Ø25mm available.
3. Twin-Touch Push Button is available with rectangular shape.

■ OPERATING HEADS DIMENSIONS

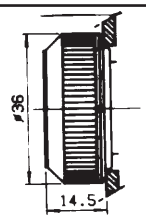
T2BFR





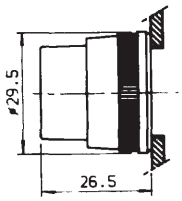
T3BFR





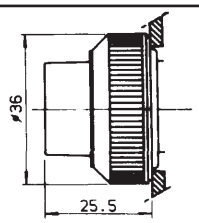
T2BLR





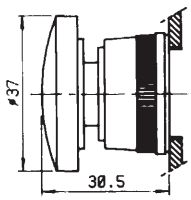
T3BLR





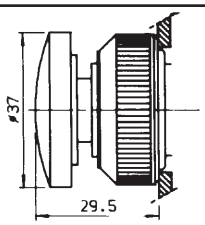
T2BMR



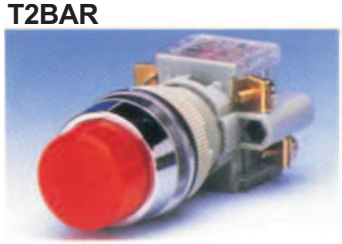


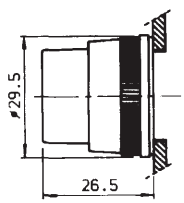
T3BMR





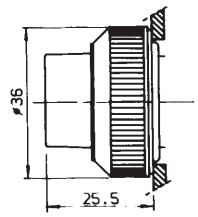
T2BAR





T3BAR





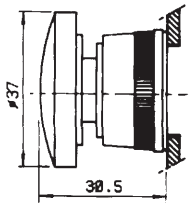
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PUSH BUTTON SWITCH (ø22 / ø25 / ø30)

IEC144 IP65

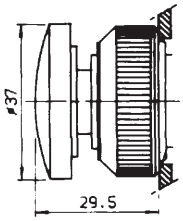
T2BBR





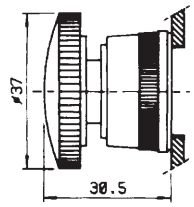
T3BBR





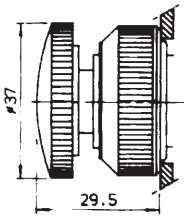
T2BKR





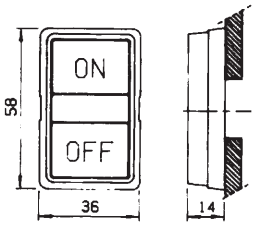
T3BKR





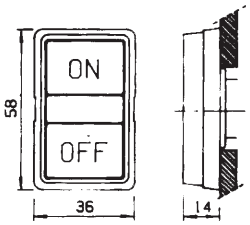
T2BTL





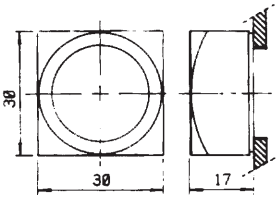
T3BTL





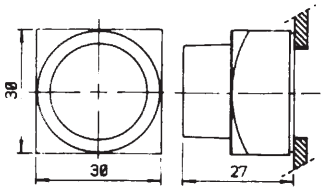
T2BFS





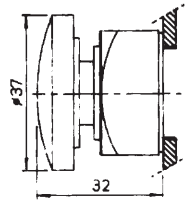
T2BLS





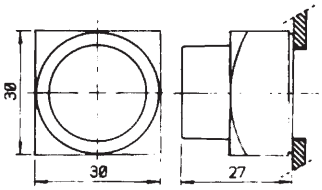
T2BMS





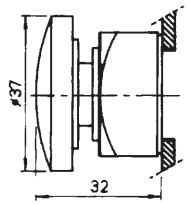
T2BAS





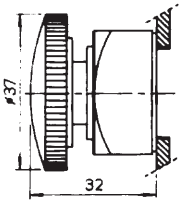
T2BBS





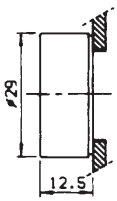
T2BKS





T2PB





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ILLUMINATED PUSH BUTTON (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

■ BULB TYPE AND CHARACTERISTICS
BA9S - 11 X28mm - 1.2 W max.

• NEON BULB



Type	Voltage	Lamp Color	Lens Color
TS9-1R	110VAC	Red	Red lamps for use with red, orange, white lens. Green lamps for use with green, blue lens.
TS9-1G		Green	
TS9-2R	220VAC	Red	
TS9-2G		Green	
TS9-3R	3 80 VAC	Red	
TS9-3G		Green	
TS9-4R	440VAC	Red	
TS94G		Green	

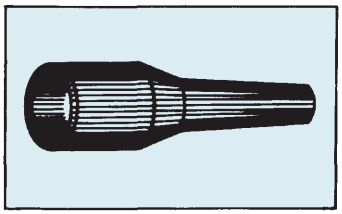
• FILAMENT BULB

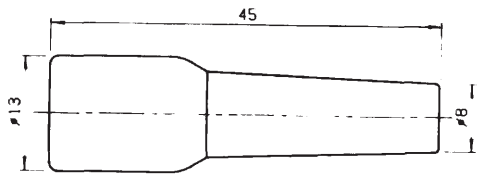


Type	Voltage
TS9-5	6V
TS9-6	18V
TS9-7	24V
TS9-8	30V
TS9-9	12V

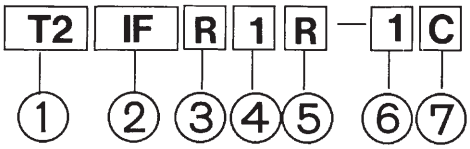
• BULB EXTRACTOR

T2-A





■ MODEL DESIGNATION



Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	IF IL IM IA IB IK IT	Flat Head Long Head Mushroom Head Long Head (Alternate) Mushroom Head (Alternate) Push-Lock Twin-Touch
3. Shape	R S L	Round Square Rectangular

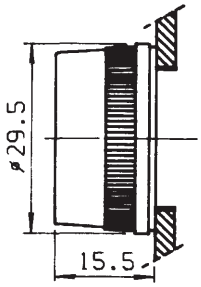
1. The mounting holes of square series are Ø22mm/ Ø25mm available.
2. Twin-Touch illuminated push button is available with rectangular shape, various colors, and transparent.

Designation	Signal	Description
4. Voltage	1 2 3 4 5 6 7 8 9	110VAC (Neon Bulb) 220 " (") 380 " (") 440 " (") 6V " (Filament Bulb) 18V " (") 24V " (") 30V " (") 12V " (")
5. Lens Color	R G O W BL	Red Green Orange White Blue
6. No. of Contact Blocks Fitted	1-3	1-3
7. Type of Contact Blocks Fitted	A B C	1a 1b 1a 1b

■ OPERATING HEAD DIMENSIONS

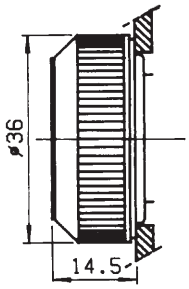
T2IFR





T3IFR



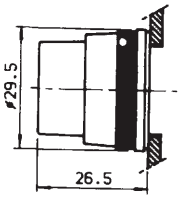


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ILLUMINATED PUSH BUTTON (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

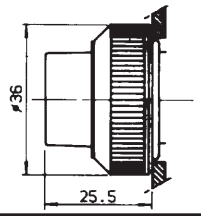
T2ILR





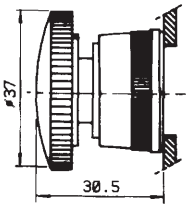
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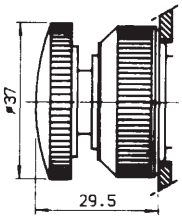
T2IMR





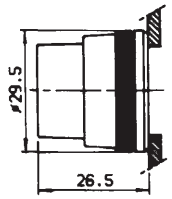
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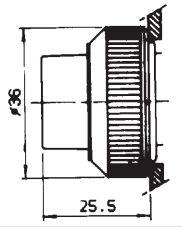
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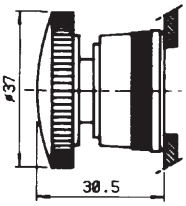
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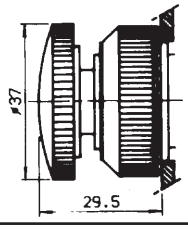
T2IBR





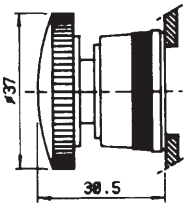
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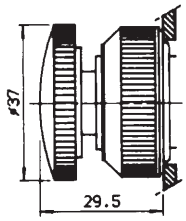
T2IKR





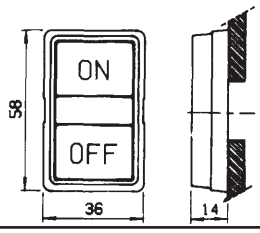
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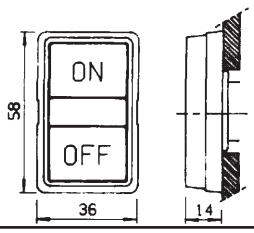
T2ITL





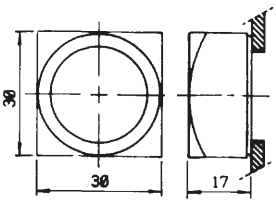
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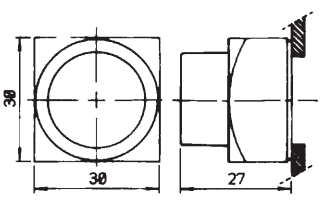
T2IFS



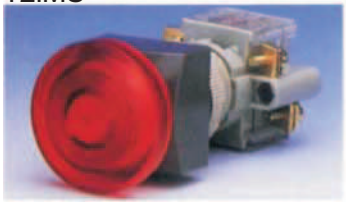


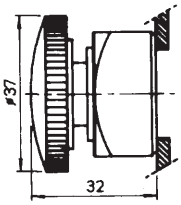
T2ILS





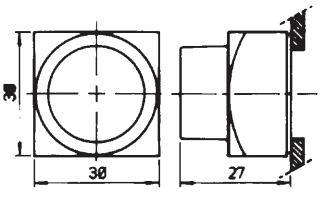
T2IMS





T2IAS



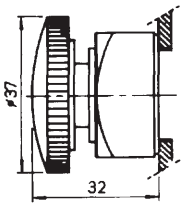


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ILLUMINATED PUSH BUTTON (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

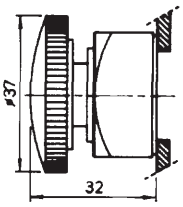
T2IBS



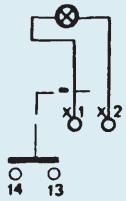
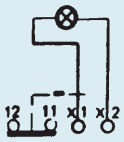
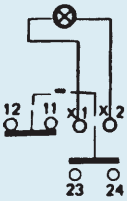
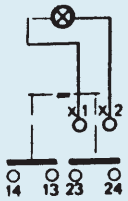


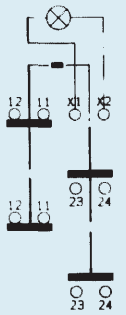
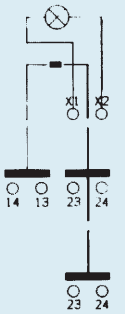
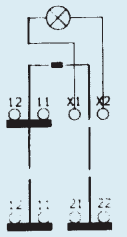
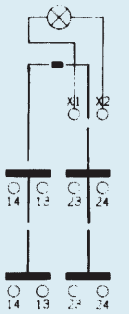
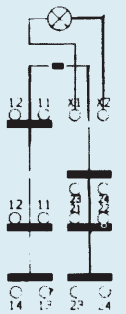
T2IKS





■ ILLUMINATED PUSH BUTTON (DIRECT POWER) CONTACT BLOCKS

Type	TC-I1A	TC-I1B	TC-I1C	TC-I 2A
Contact	1a	1b	1a1b	2a
Contact Arrangement				

Type	TC-I2C	TC-I3A	TC-I3B	TC-I4A	TC-I3C
Contact	2a2b	3a	3b	4a	3a3b
Contact Arrangement					

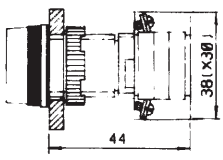
■ TYPES OF ILLUMINATED (DIRECT POWER) CONTACT BLOCK AND ASSEMBLY METHOD.

Short contact block is available in 1a, 1b. Long contact block is available in 1a1b, 2a. If more contacts are needed, just add the short one to the long one (The short one is not designed for being added by other block at its rear end). 2b, 2a2b, 3a, 3b, 4a, will be available with one-long-one-short blocks. By replacing the short block with another long one and becoming two-long blocks, 3a3b will be obtainable.

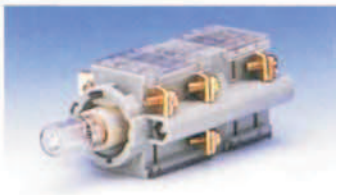
■ ILLUMINATED PUSH BUTTON (DIRECT POWER) CONTACT BLOCKS DIMENSIONS

TC-I1A.TC-I1B

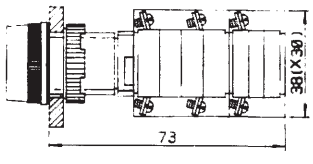




TC-I3A-TC-I3B
TC-I2C-TC-I4A

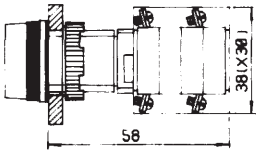


M3x44 SCREW 2PCS
M3 NUT 2PCS

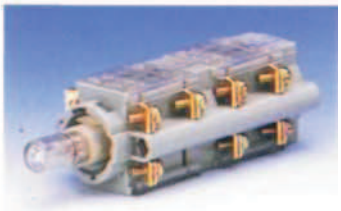


TC-I1C. TC-I2A

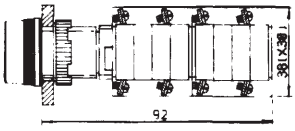




TC-I3C



M3x55 SCREW 2PCS
M3 NUT 2 PCS.

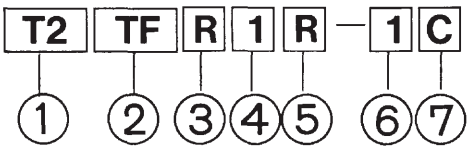


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ILLUMINATED PUSH BUTTON (Ø22 / Ø25 / Ø30 WITH TRANSFORMER) IEC144 IP65

This series of switches are equipped with transformers at the secondary voltage of 5V and TS9-5(6V) bulb used.

■ MODEL DESIGNATION



Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	IF IL IM IA IB IK IT	Flat Head Long Head Mushroom Head Long Head (Alternate) Mushroom Head (Alternate) Push-Lock Twin-Touch
3. Shape	R S L	Round Square Rectangular

Designation	Signal	Description
4. Voltage (50HZ~60HZ)	1 2	110/5VAC 220/5VAC
5. Lens Color	R G 0 W BL	Red Green Orange White Blue
6. No. of Contact Blocks Fitted	1-2	1-2
7. Type of Contact Blocks Fitted	A B C	1a 1b 1a1b

1. The mounting holes of square series are Ø22mm/ Ø25mm available.
2. Twin-Touch illuminated push button is available with rectangular shape, various colors, and transparent.
3. The voltages of illuminated push button are 110/5 VAC and 220/5VAC.

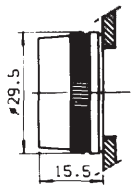
■ TYPES OF ILLUMINATED CONTACT BLOCK AND ASSEMBLY METHOD.

Long or short contact block is same as standard one. After disassembling the transformer base, the assembly method of contact block is same as that of standard type. See p. 2.

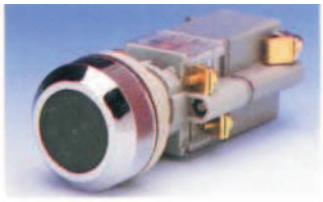
■ OPERATING HEADS DIMENSIONS

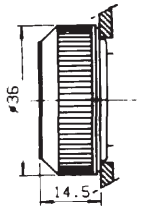
T2TFR



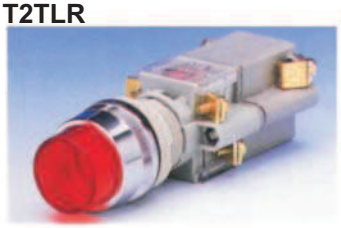


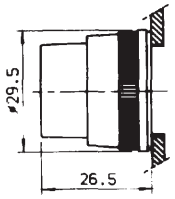
T3TFR





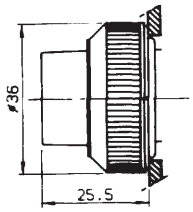
T2TLR





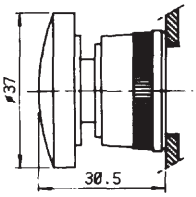
T3TLR





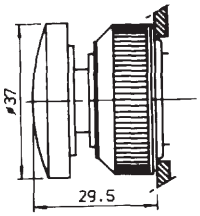
T2TMR



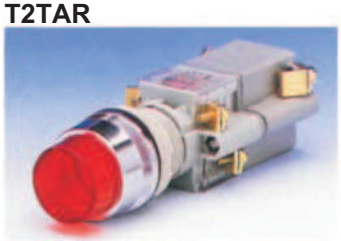


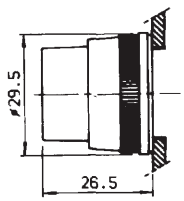
T3TMR



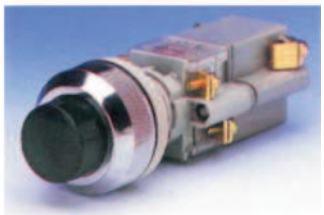


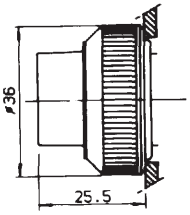
T2TAR





T3TAR



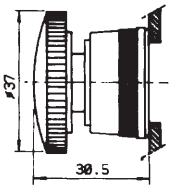


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ILLUMINATED PUSH BUTTON (Ø22 / Ø25 / Ø30 WITH TRANSFORMER) IEC144 IP65

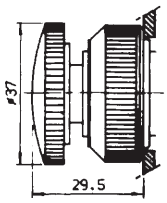
T2TBR





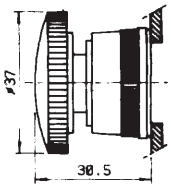
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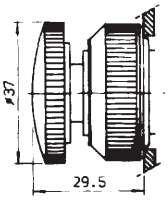
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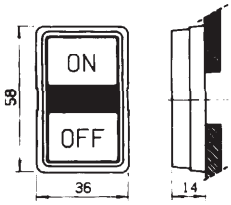
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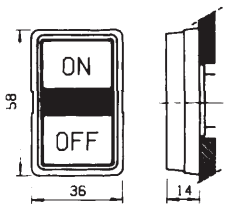
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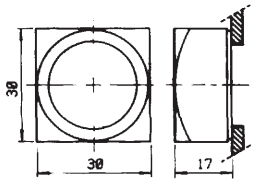
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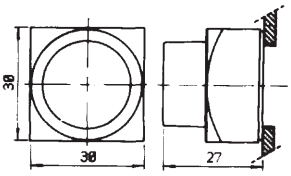
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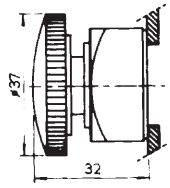
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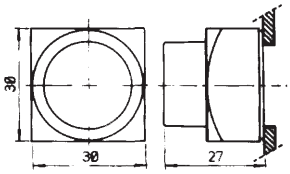
T2TMS





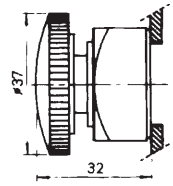
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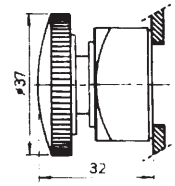
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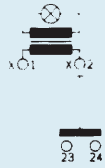
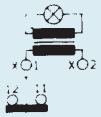
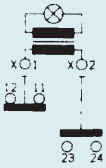
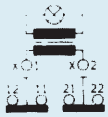
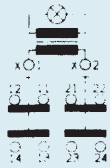


T2TKS





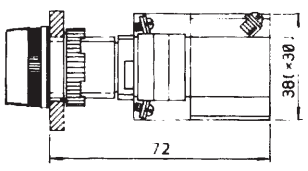
■ ILLUMINATED PUSH BUTTON CONTACT BLOCKS (WITH TRANSFORMER) DIMENSIONS

Type	TC-T1A	TC-T1B	TC-T1C	TC-T2A	TC-T2B	TC-T2C
Contact	1a	1b	1a1b	2a	2b	2a2b
Contact Arrangement						

■ ILLUMINATED PUSH BUTTON CONTACT BLOCKS (WITH TRANSFORMER) DIMENSIONS

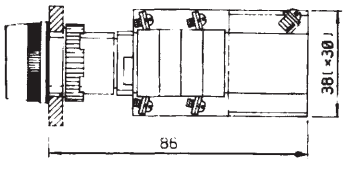
TC-T1ATC-T1B TC-T1C
TC-T2A TC-T2B





TC-T2C





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SELECTOR SWITCH (Ø22 / Ø25 / Ø30)

IEC144 IP65

The contact block of this series of switches is standard. See page 2 for assembly dimension.

MODEL DESIGNATIONS

T2	SS	R	1	1	R	–	1	C
①	②	③	④	⑤	⑥		⑦	⑧

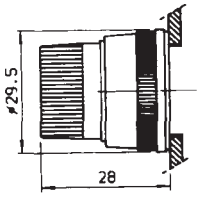
Designation	Signal	Description
1 . Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	SS SH KS	Knob Operator Lever Operator Key Operator
3. Shape	R S	Round Square
4. Positions	1	45° 2-Position
	2	90° 2-Position
	3	45° 2-Position Spring return from right
	4	45°x2 3-Position
	5	45 x2 3-Position Spring return from right
	6	45°x2 3-Position Spring return from left
	7	45°x2 3-Position 2-Way spring return

Designation	Signal		Description
5. Key Withdrawable	1	2-Position	0.1 Key withdrawable
	2		0 Key withdrawable
	3		1 Key withdrawable
	4	3-Position	0.1.2 Key withdrawable
	5		0 Key withdrawable
6. Lens Color	R G B		Red Green Black
7. No. of Contacts Fitted	1-4		1-4
8. Type of Contact Blocks Fitted	A	2-Position	3-Position
	B	1a	-
	C	1b	-
		1a1b	1a 0 1a

OPERATING HEADS DIMENSIONS

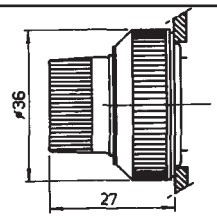
T2SSR





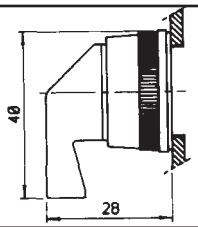
T3SSR





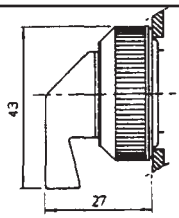
T2SHR





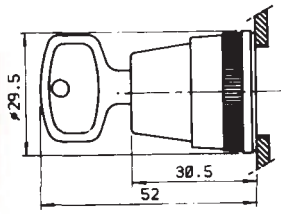
T3SHR





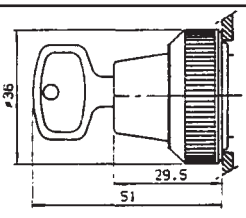
T2KSR





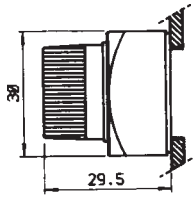
T3KSR





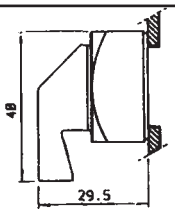
T2SSS





T2SHS



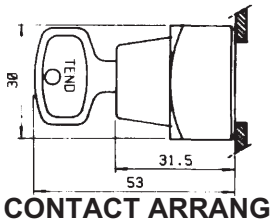


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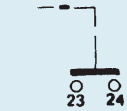
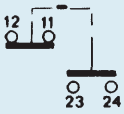
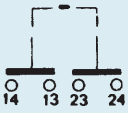
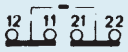
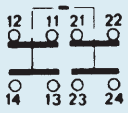
SELECTOR SWITCH (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

T2KSS





■ SELECTOR SWITCH 2-POSITION CONTACT ARRANGEMENT

Type	TC-1A	TC-1B	TC-1C2	TC-2A	TC-2B	TC-2C2
Contact	1a	1b	1a1b	2a	2b	2a2b
Contact Arrangement						

Contact	0	1
23-24		x

Contact	0	1
11-12	x	

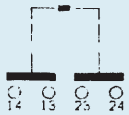
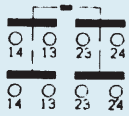
Contact	0	1
11-12	x	
23-24		x

Contact	0	1
13-14		x
23-24		x

Contact	0	1
11-12	x	
21-22	x	

Contact	0	1
11-12	x	
13-14		x
21-22	X	
23-24		x

■ SELECTOR SWITCH 3-POSITION CONTACT ARRANGEMENT

Type	TC-1C3	TC-2C3
Contact	1a 0 1a	2a 0 2a
Contact Arrangement		

Contact	1	0	2
13-14	x		
23-24			x

Contact	1	0	2
13-14	x		
13-14	x		
23-24			x
23-24			x

ILLUMINATED SELECTOR SWITCH (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

The contact block of this series of switches is illuminated type. See page 2 for assembly dimension.
The type and specification of bulb used are same as those for direct type illuminated push button switch. See p. 5.

■ MODEL DESIGNATION

T2	IS	R	1	1	R	—	1	C
①	②	③	④	⑤	⑥		⑦	⑧

Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	IS IH	Knob Operator Lever Operator
3. Shape	R S	Round Square
4. Positions	1	 45° 2-Position
	2	 90° 2-Position
	3	 45° 2-Position Spring return from right
	4	 45°x2 3-Position
	5	 45°x2 3-Position Spring return from right
	6	 45°x2 3-Position Spring return from left
	7	 45°x2 3-Position 2-Way spring return

Designation	Signal	Description
5. Voltage	1 2 3 4 5 6 7 8 9	110VAC (Neon Bulb) 220 " (") 380 " (") 440 " (") 6V " (Filament Bulb) 18V " (") 24V " (") 30V " (") 12V " (")
6. Lans Color	R G O W BL	Red Green Orange White Blue
7. No. of Contact Blocks Fitted	1-3	1-3
8. Type of Contact Blocks Fitted	A B C	2-Position: 1a, 1b, 1a1b 3-Position: 1a, 0, 1a

- The mounting holes of square series are Ø22mm/Ø25mm available.

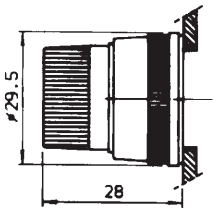
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ILLUMINATED SELECTOR SWITCH (Ø22 / Ø25 / Ø30 DIRECT POWER) IEC144 IP65

■ OPERATING HEADS DIMENSIONS

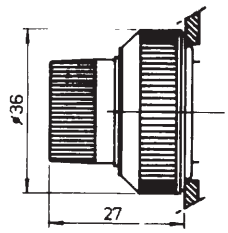
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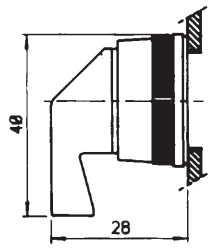
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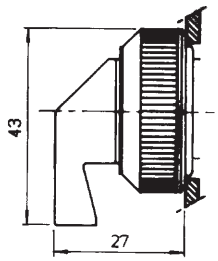
T2IHR





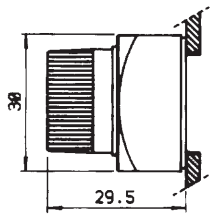
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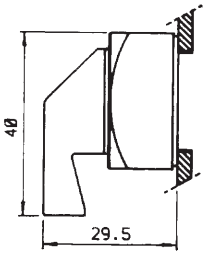
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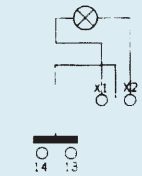
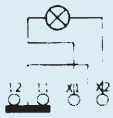
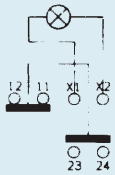
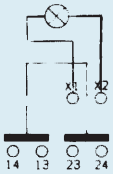
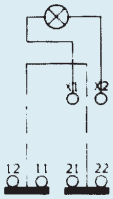
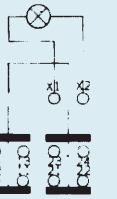


T2IHS





■ ILLUMINATED SELECTOR SWITCH (DIRECT POWER) 2-POSITION CONTACT ARRANGEMENT

Type	TC-I1A	TC-I1B	TC I1C2	TC-I2A	TC-I2B	TC-I2C2
Contact	1a	1b	1a1b	2a	2b	2a2b
Contact Arrangement						

Contact	0	1
13-14		x

Contact	0	1
11-12	x	

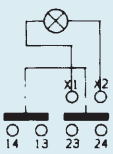
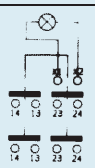
Contact	0	1
11-12	x	
23-24		x

Contact	0	1
13-14		x
23-24		x

Contact	0	1
11-12	x	
21-22	x	

Contact	0	1
11-12	x	
13-14		x
21-22	x	
23-24		x

■ ILLUMINATED SELECTOR SWITCH (DIRECT POWER) 3-POSITION CONTACT ARRANGEMENT

Type	TC-I1C3	TC-I2C3
Contact	1a 0 1a	2a 0 2a
Contact Arrangement		

Contact	1	0	2
13-14	x		
23-24			x

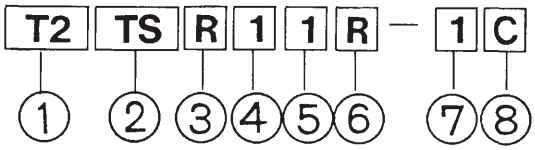
Contact	1	0	2
13-14	x		
13-14	x		
23-24			x
23-24			x

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ILLUMINATED SELECTOR SWITCH (Ø22 / Ø25 / Ø30 WITH TRANSFORMER) IEC144 IP65

The contact block of this series of switches is standard. See page 2 for assembly dimension.
This series of switches are equipped with transformers at the secondary voltage of 5V and TS9-5 (6V) bulb used. See p. 5.

■ MODEL DESIGNATION



Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	TS TH	Knob Operator Lever Operator
3. Shape	R S	Round Square
4. Positions	1	45° 2-Position
	2	90° 2-Position
	3	45° 2-Position Spring return from right
	4	45°x2 3-Position
	5	45 x2 3 Position Spring return from right
	6	45°x2 3-Position Spring return from left
	7	45°x2 3-Position 2-Way spring return

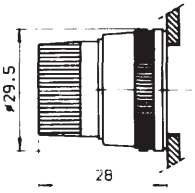
Designation	Signal	Desription	
5. Voltage (50-60HZ)	1 2	110/5 VAC 220/5 VAC	
6. Lens color	R G 0 W BL	Red Green Orange White Blue	
7. No. of Contact Blocks Fitted	1-2	1-2	
8. Type of Contact Blocks Fitted	 A B C	2-Position 1a 1b 1a1b	3-Position - - 1a 0 1a

- The mounting holes of square series are 022mm/025mm available.

■ OPERATING HEADS DIMENSIONS

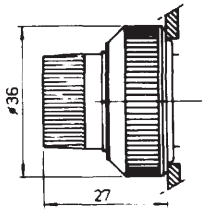
T2TSR





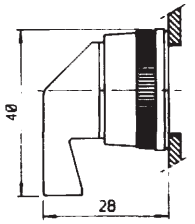
T3TSR





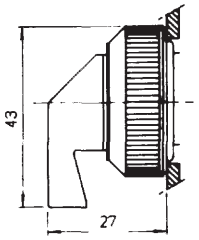
T2THR





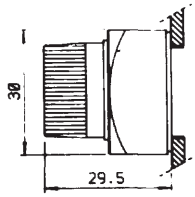
T3THR



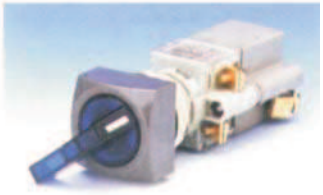


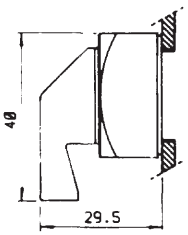
T2TSS





T2THS

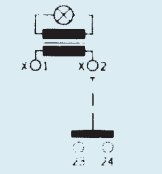
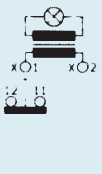
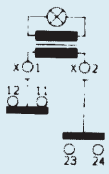
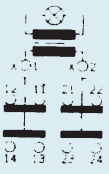




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ILLUMINATED SELECTOR SWITCH (Ø22 / Ø25 / Ø30 WITH TRANSFORMER) IEC144 IP65

■ ILLUMINATED SELECTOR SWITCH (TRANSFORMER) 2 POSITION CONTACT ARRANGEMENT

Type	TC-T1A	TC-T1B	TC-T1C2	TC-T2A	TC-T2B	TC-T2C2
Contact	1a	1b	1a1b	2a	2b	2a2b
Contact Arrangenent						
	Contact 0 1 23-24 x	Contact 0 1 11-12 x	Contact 0 1 11-12 x 23-24 x	Contact 0 1 13-14 x 23-24 x	Contact 0 1 11-12 x 21-22 x	Contact 0 1 11-12 x 13-14 x 21-22 X 23-24 x

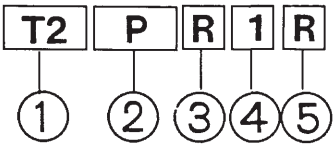
■ ILLUMINATED SELECTOR SWITCH (WITH TRANSFORMER) 3-POSITION CONTACT ARRANGEMENT

Type	TC-T1C3	TC-T2C3
Contact	1a 0 1a	2a 0 2a
Contact Arrangement	 Contact 1 0 2 13-14 x 23-24 x	 Contact 1 0 2 13-14 x 13-14 x 23-24 x 23-24 x

PILOT LAMP (Ø22/Ø25/Ø30 DIRECT POWER) IEC144 IP65

This series of bulbs used are same as those for direct type illuminated push button switch. See p. 5.

■ MODEL DESIGNATION



Designation	Signal	Description
1. Mounting	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	P L N	Direct Power Simple (Screw Terminal in the rear) Simple (Screw Terminal on the side)
3. Shape	R S	Round Square

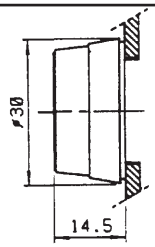
4. Voltage	1	110VAC (Neon Bulb)
	2	220VAC (")
	3	380VAC (")
	4	440VAC (")
	5	6V (Filament Bulb)
	6	18V (")
	7	24V (")
	8	30V (")
	9	12V (")
5. Lens Color	R G O W BL	Red Green Orange White Blue

- The upper and lower bases of simple type pilot lamp are one unit and undetachable.
- The mounting holes of square series are Ø22mm/ Ø25mm available.

■ PILOT LAMP (DIRECT POWER) DIMENSIONS

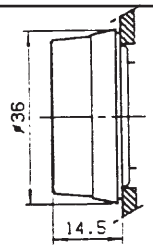
T2PR





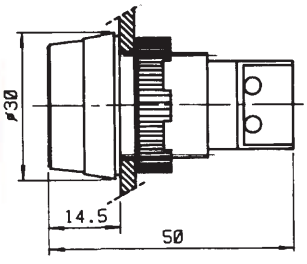
T3PR





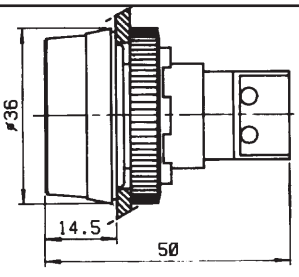
T2LR





T3LR





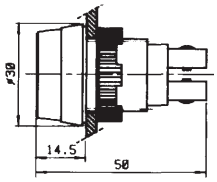
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PILOT LAMP (Ø22/Ø25/Ø30 DIRECT POWER)

IEC144 IP65

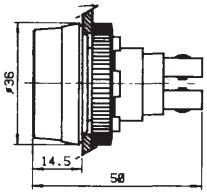
T2NR





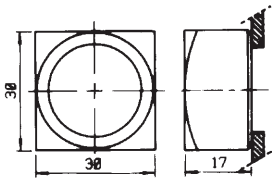
T3NR





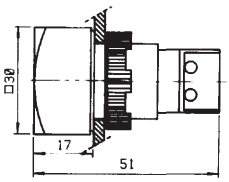
T2PS





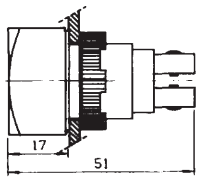
T2LS





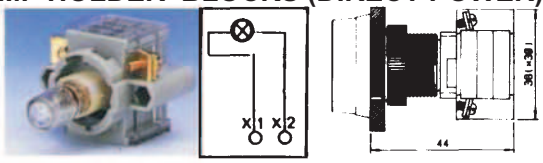
T2NS





■ LAMP HOLDER BLOCKS (DIRECT POWER)

TPS-1

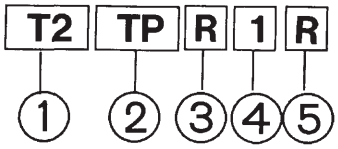


PILOT LAMP (Ø22/Ø25/Ø30 WITH TRANSFORMER)

IEC144 IP65

This series of pilot lamps are equipped with transformers at the secondary voltage of 5V and TS9-5(6V) bulb used. See p. 5.

■ MODEL DESIGNATIONS



Designation	Signal	Description
1. Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	TP	With Transformer
3. Shape	R S	Round Square

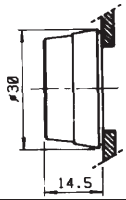
Designation	Signal	Description
4. Voltage (50-60Hz)	1 2	110/5VAC 220/5VAC
5. Lens Color	R G 0 W BL	Red Green Orange White Blue

- The mounting holes of square series are Ø22mm/ Ø25mm available.

■ PILOT LAMP DIMENSIONS

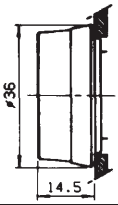
T2TPR





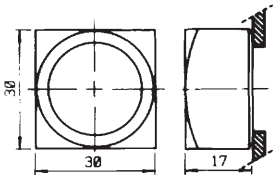
T3TPR





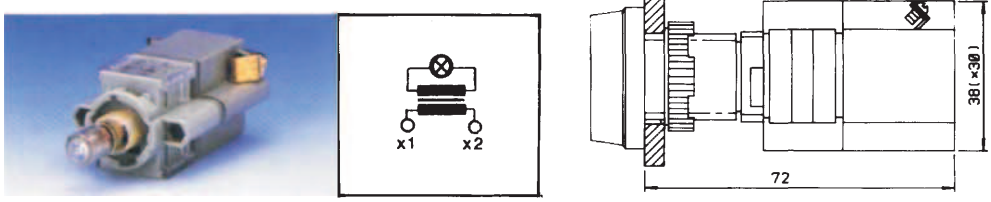
T2TPS





■ LAMP HOLDER BLOCKS (WITH TRANSFORMER)

TPS-2

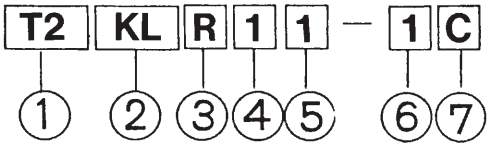


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KEY OPERATED PUSH BUTTON SWITCH (Ø22/Ø25/Ø30) IEC144 IP65

The contact block of this series of switches is standard. See page 2 for types, drawing of contacts and assembly dimension.

■ MODEL DESIGNATION



Designation	Signal	Description
1 . Mounting Hole	T2 T3	Ø22mm/Ø25mm Ø30mm
2. Type	KL KM	Long Head Mushroom Head
3. Shape	R S	Round Square

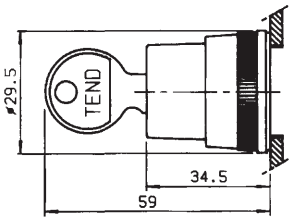
1. The mounting holes of square series are Ø22mm/ Ø25mm available.
2. The symbol for the position where the key is drawn out for key chain return type is blank.
3. The key's switching way is 2-section.

Designation	Signal	Description
4. Movement Way	1	1 . Key Return Type 1) It can't be pressed down when it's in still. 2) It will become return type push button after being pressed down when the key is turned right.
	2	2. Key Chain Type 1) Press it down when it's in still and it'll become chain type push button. 2) It will return after being pressed down when the key is turned right.
	3	3. Key Fixing Type 1) It can't be pressed down when it's in still. 2) It can be pressed down when the key is turned right. It will be further fixed after the key is turned left. 3) It will return when the key is turned right.
	4	4. Key Chain Return Type 1) It will become chain type after being pressed down when the key is in still and will return when the key is turned right. 2) It will become return push button when the key is turned right and drawn out.
5. Key Withdrawable	1 2	It may be drawn out both in stillness and being turned right. It may be drawn out in stillness.
6. No. of Contact Blocks Fitted	1-3	1-3
7. Type of Contact Blocks Fitted	A B C	1A 1B 1A1B

■ OPERATING HEAD DIMENSIONS

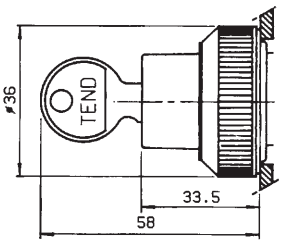
T2KLR





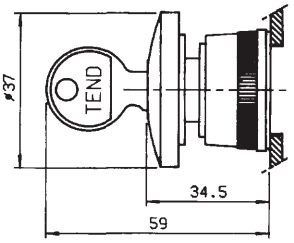
T3KLR





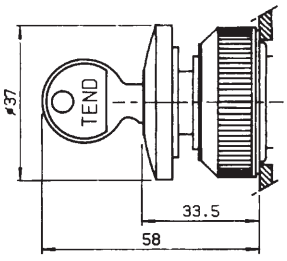
T2KMR





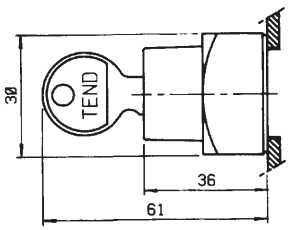
T3KMR



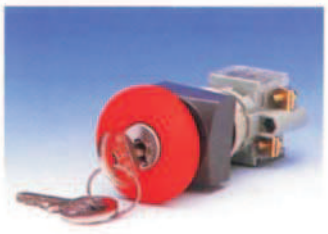


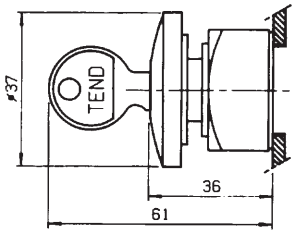
T2KLS





T2KMS





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INSULATED ENCLOSURES (Ø22/Ø30)

IEC144 IP65

The mounting holes of this series of insulated enclosures are Ø22mm/Ø30mm. Single-hole insulated enclosures are available in yellow and gray. All the others are in gray. The upper base and contact block are of exclusive type, which is different from those of Ø22/Ø30 series control components.
The dimension and type of the upper base are same as those of Ø22/Ø30 series control components. The symbol of this type is: by adding "B" to the type No. of Ø22/Ø30 series control components. For example: T2BFR stands for the upper base of Ø22 flat-head round type push button; and T2BFR-B refers to the exclusive upper base of the insulated enclosures.

■ THE ASSEMBLY OF INSULATED ENCLOSURES AND SWITCH

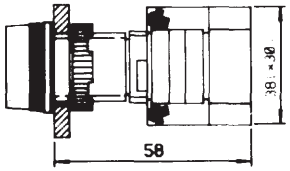
1) Take apart the upper cover and the lower base of the insulated enclosures.
2) Fix the contact block on the lower base, and the upper base on the upper cover. (Standard contact block needs underneath packing)
3) Connect the upper cover with the lower base into one kit.

- The protection structure for this series of insulated enclosures is IP65(IEC144).
- All the illuminated switches used in the insulated enclosures are direct type.

■ STANDARD CONTACT BLOCK FOR INSULATED ENCLOSURES

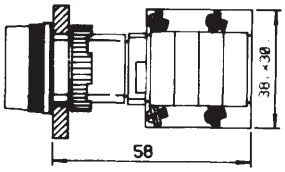
TC-B1A • TC-B1B • TC-B1C
TC-B2A • TC-B2B





TC • B2C

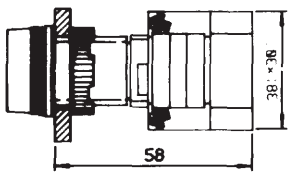




■ ILLUMINATED CONTACT BLOCK FOR INSULATED ENCLOSURES

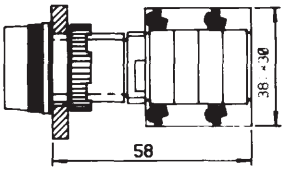
TC-BI1A • TC-BI1B





TC-BI1C • TC-BI2A

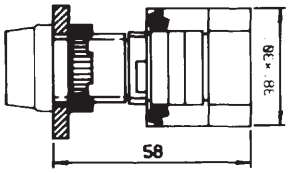




■ LAMP HOLDER BLOCKS (FOR INSULATED ENCLOSURES)

TPS-3





■ INSULATED ENCLOSURES DIMENSIONS T2: Ø22mm T3: Ø30mm

T2-B1
T3-B1



T2-B2
T3-B2



T2-B3
T3-B3



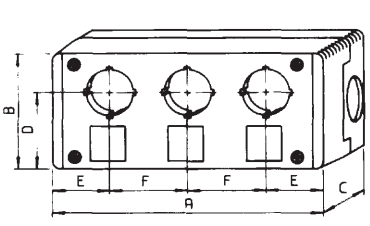
T2-B4
T3-B4



T2-B5
T3-B5



■ Mounting Dimensions.



T2:Ø22 T3:Ø30

Type	A	B	C	D	E	F	G	H
T2-B1 T3-B1	82	72	63	42	41	-	63	54
T2-B2 T3-B2	127	72	63	42	41	45	108	54
T2-B3 T3-B3	172	72	63	42	41	45	153	54
T2-B4 T3-B4	217	72	63	42	41	45	198	54
T2-B5 T3-B5	262	72	63	42	41	45	243	54

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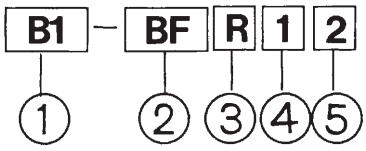
CONTROL STATIONS

IEC144 IP65

The mounting hole of this series of insulated enclosures is Ø22. The illuminated push button and pilot lamp are all direct type. The contact of the switches are all 1A1B. The shape is round.
The insulated enclosures of mushroom-head and chain type push button are in yellow or gray. Others in gray.

■ MODEL DESIGNATION

ONE BUTTON



Designation	Signal	Description
1. No. of Button	B1 B2 B3	1 Button 2 Buttons 3 Buttons
2. Type	BF BL BM BK KM IF IL IM IK S2 S3	Flat Head Push Button Long Head Push Button Mushroom Head Push Button Push-Lock Push Button Key Push-Lock Mushroom Flat Head Illuminated Push Button Long Head Illuminated Push Button Mushrrom Head Illuminated Push Button Push-Lock Illuminated Push Button Selector Switch (2 Positions) Selector Switch (3 Positions)

Designation	Signal	Description
3. Lens Color	R G B	Red Green Black
4. Name Plate	1 2 3 4 5	OFF ON EM. STOP OFF-ON ON-OFF-ON
5. Voltage	None 2 7	Non-Illuminated 220VAC 24V

■ ONE BUTTON

B1-BFR1
B1-IFR1



B1-BFG2
B1-IFG2



B1-BLR1
B1-ILR1



B1-BLG2
B1-ILG2



B1-BMR3
B1-IMR3



B1-BKR3
B1-IKR3



B1-KMR3



B1-S2B4



B1-S3B5



■ TWO BUTTONS



Type	Name Plate	Buttons	Voltage
B2-BF	ON OFF	2 Flat Head Push Buttons	
B2-IF2	" "	2 Flat Head Illuminated Push Buttons	220 VAC
B2-IF7	" "	"	24 V

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CONTROL STATIONS

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■ THREE BUTTONS



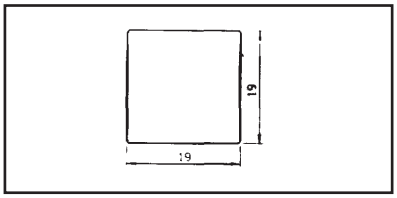


Type	Name Plate	Buttons
B3-BF	ON OFF ON	3 Flat Head Push Buttons
B3-IF	" " "	3 Flat Head Illuminated Push Buttons
B3-PF2	220V ON OFF	1 Pilot Lamp 2 Flat Head Push Buttons
B3-PF7	24V ON OFF	„

NAME PLATES (Ø22/Ø25/Ø30)

■ PLATES FOR ENCLOSURES

TBP



- **FOR PUSH BUTTON, ILLUMINATED PUSH BUTTON, PILOT LAMP.**

TBP-01	TBP-02	TBP-03	TBP-04	TBP-05	TBP-06	TBP-07	TBP-08	TBP-09	TBP-10
O	I	II	III	IV	ON	OFF	START	STOP	UP
TBP-11	TBP-12	TBP-13	TBP-14	TBP-15	TBP-16	TBP-17	TBP-18	TBP-19	TBP-20
DOWN	SOURCE	HAND	AUTO	RUN	FWD	REV	CLOSE	OPEN	FAST
TBP-21	TBP-22	TBP-23	TBP-24	TBP-25	TBP-26	TBP-27	TBP-28	TBP-29	TBP-30
SLOW	RESET	EM. STOP	12V	24V	30V	110V	220V	B	1
TBP-31	TBP-32	TBP-33	TBP-34	TBP-35	TBP-36	TBP-37	TBP-38		
2	3	4	5	6	7	8	9		

- **FOR SELECTOR SWITCH**

TBP-51	TBP-52	TBP-53	TBP-54	TBP-55	TBP-56	TBP-57	TBP-58	TBP-59	TBP-60
I O	II I	I I O I	I I I I I I	ON OFF	ON ON	ON OFF ON	REV FWD	REV OFF FWD	AUTO HAND
TBP-61	GBP-62	TBP-63	TBP-64	TBP-65	TBP-66	TBP-67			
AUTO OFF HAND	START STOP	UP DOWN	UP OFF DOWN	1 2	1 0 2	1 2 3			

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NAME PLATES (Ø22/Ø25/Ø30)

IEC144 IP65

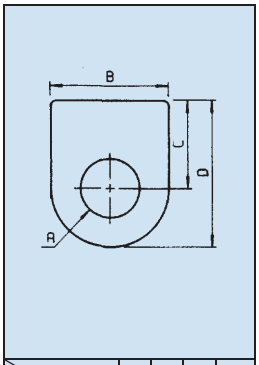
■ LEGEND PLATES FOR Ø22/Ø25/Ø30 OPERATING DEVICES

(Ø22) T22P
(Ø25) T25P
(Ø30) T30P

• FOR PUSH BUTTON, ILLUMINATED PUSH BUTTON, PILOT LAMP.

T22P- T25P- T30P-

06	07	08	09	10	11	12	13	14	15	16	17
ON	OFF	START	STOP	UP	DOWN	SOURCE	HAND	AUTO	RUN	FWD	REV



DIMENSI-ONS / TYPE	A	B	C	D
T22P	Ø22	31	27	42
T25P	Ø25	31	27	42
T30P	Ø30	38.5	32.5	52

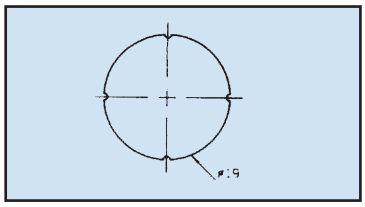
• FOR SELECTOR SWITCH T22P- T25P- T30P-

51	52	53	54	55	56	57	58
O I	I II	I O II	I II III	OFF ON	ON NO	ON OFF ON	FWD REV

59	60	61	62
FWD OFF REV	AUTO HAND	AUTO OFF HAND	STOP START

■ BUTTON PLATES FOR Ø22/Ø25/Ø30 OPERATING DEVICES

TPP

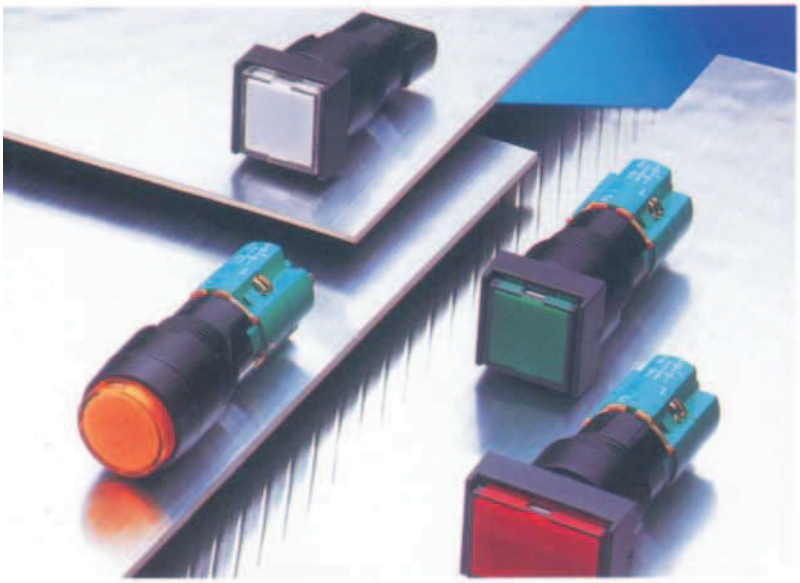


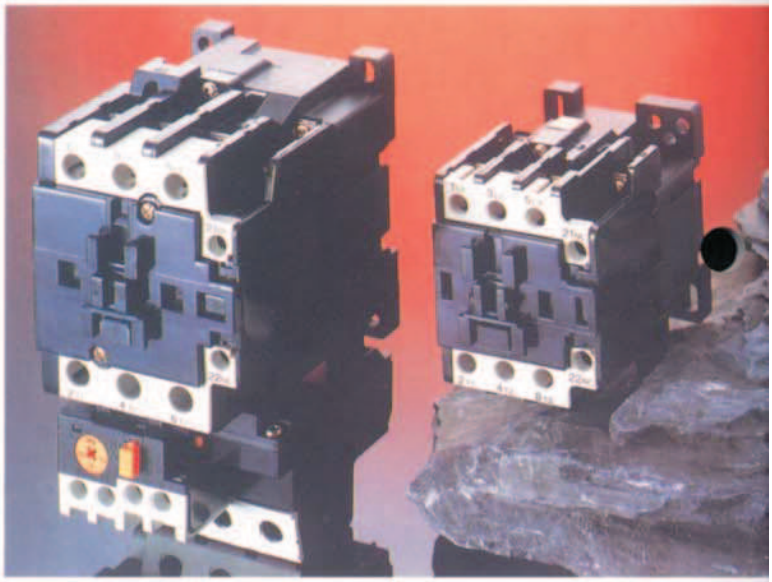
TPP-01	TPP-02	TPP-03	TPP-04	TPP-05	TPP-06	TPP-07	TPP-08	TPP-09	TPP-10
O	I	II	III	IV	ON	OFF	START	STOP	UP
TPP-11	TPP-12	TPP-13	TPP-14	TPP-15	TPP-16	TPP-17	TPP-18	TPP-19	TPP-20
DOWN	SOURCE	HAND	AUTO	RUN	FWD	REV	CLOSE	OPEN	FAST
TPP-21	TPP-22	TPP-23	TPP-24	TPP-25	TPP-26	TPP-27	TPP-28	TPP-29	TPP-30
SLOW	RESET	INCH	12V	24V	30V	110V	220V	B	1
TPP-31	TPP-32	TPP-33	TPP-34	TPP-35	TPP-36	TPP-37	TPP-38		
2	3	4	5	6	7	8	9		

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