

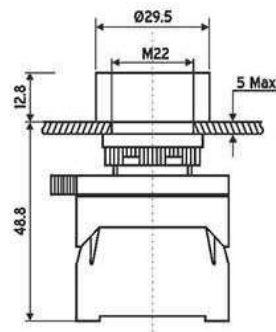
- Characteristics
- Aesthetically elegant
  - Self wiping contacts ensure trouble free operation
  - Safe in operation, locking device unaffected by vibration
  - Protection against electrical shock (unit earthed)
  - Shrouded terminals
  - Modular construction
  - Conform to IEC/EN-60947-5-1

CE

### SPRING RETURN PUSH BUTTON SWITCHES

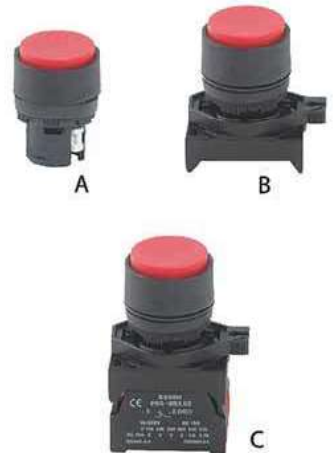
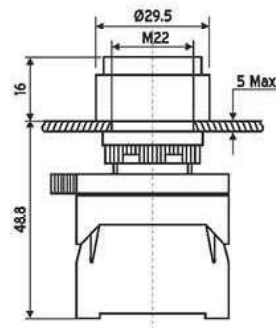
#### FLUSH TYPE

Type	Description	Ordering code
A	Actuator	<b>PB5-EA()</b>
B	Actuator & plastic bracket	<b>PCB5-EA()</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EA()*</b>



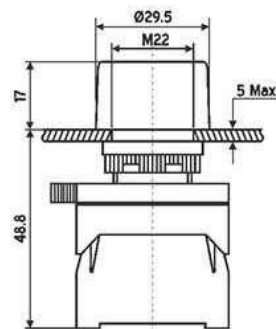
#### PROJECTING TYPE

Type	Description	Ordering code
A	Actuator	<b>PB5-EL()</b>
B	Actuator & plastic bracket	<b>PCB5-EL()</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EL()*</b>



#### BOOTED TYPE

Type	Description	Ordering code
A	Actuator	<b>PB5-EP()</b>
B	Actuator & plastic bracket	<b>PCB5-EP()</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EP()*</b>



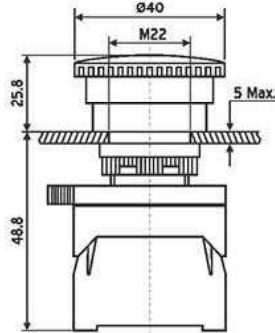
Add following suffixes in the ordering code of push button switches for colour and contact blocks.

() 1 = White, 2 = Black, 3 = Green, 4 = Red, 5 = Yellow, 6 = Blue

\* 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

### MUSHROOM HEAD (Ø 40 mm.)

Type	Description	Ordering code
A	Actuator Red	<b>PB5-EC4</b>
B	Actuator & plastic bracket	<b>PCB5-EC4</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EC4*</b>

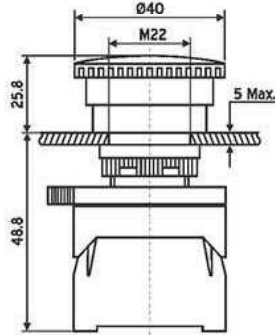


Note : Mushroom head (Ø 40 mm.) push button switches are available in Red, Green & Black colours only.

### LATCHING MUSHROOM HEAD (Ø 40 mm.) (Emergency stop push button)

#### PRESS TO LOCK, TURN TO RELEASE

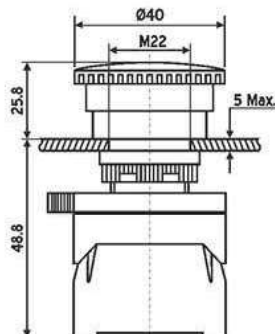
Type	Description	Ordering code
A	Actuator Red	<b>PB5-ES 54</b>
B	Actuator & plastic bracket	<b>PCB5-ES 54</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ES 54*</b>



Note : Emergency stop Mushroom push button switches are available in Red & Black colours only.  
Add suffix 'E' in the ordering code of Emergency stop push button switch for marking 'E STOP' on actuator.

### MUSHROOM HEAD (Ø 40 mm.) (Push - Pull)

Type	Description	Ordering code
A	Actuator	<b>PB5-ET( )</b>
B	Actuator & plastic bracket	<b>PCB5-ET( )</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ET( )*</b>



Note : Emergency stop Mushroom push button switches are available in Red & Black colours only.  
Add suffix 'E' in the ordering code of Emergency stop push button switch for marking 'E STOP' on actuator.

Add following suffixes in the ordering code of push button switches for colour and contact blocks.

( ) 1 = White, 2 = Black, 3 = Green, 4 = Red, 5 = Yellow, 6 = Blue

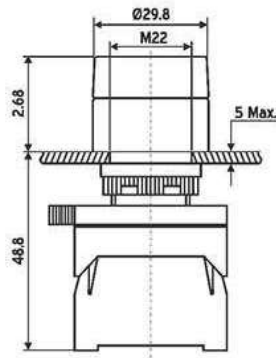
\* 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

**SELECTOR SWITCHES**

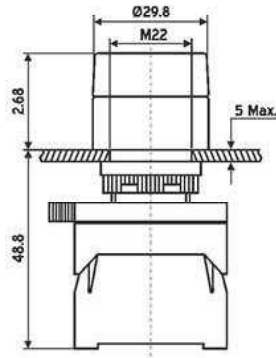
(Non illuminated)

**TWO POSITION**
**STAY PUT** (standard knob)

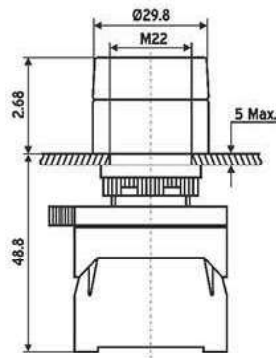
Type	Description	Ordering code
A	Actuator	<b>PB5-ED 2</b>
B	Actuator & plastic bracket	<b>PCB5-ED 2</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ED 2*</b>


**SPRING RETURN FROM RIGHT TO LEFT**  
 (standard knob)

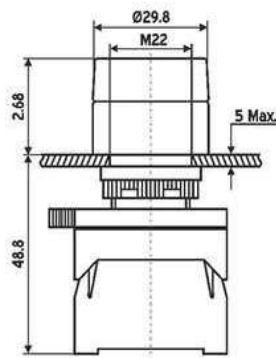
Type	Description	Ordering code
A	Actuator	<b>PB5-ED R2</b>
B	Actuator & plastic bracket	<b>PCB5-ED R2</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ED R2*</b>


**THREE POSITION**
**STAY PUT CENTRE OFF** (standard knob)

Type	Description	Ordering code
A	Actuator	<b>PB5-ED 3</b>
B	Actuator & plastic bracket	<b>PCB5-ED 3</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ED 3*</b>


**SPRING RETURN FROM BOTH POSITION TO CENTRE**  
 (standard knob)

Type	Description	Ordering code
A	Actuator	<b>PB5-ED R3</b>
B	Actuator & plastic bracket	<b>PCB5-ED R3</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-ED R3*</b>



Add following suffix at \* in the ordering code of push button switches for contact blocks.

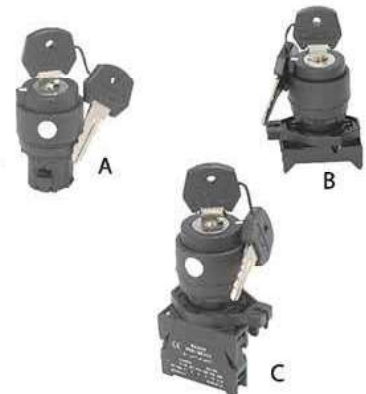
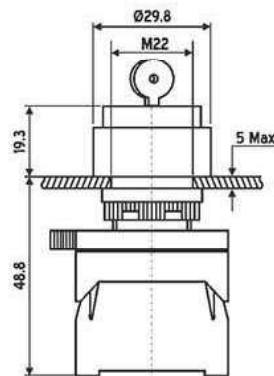
1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

**KEY SWITCHES**

(2 position)

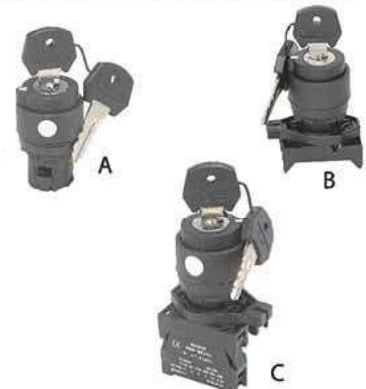
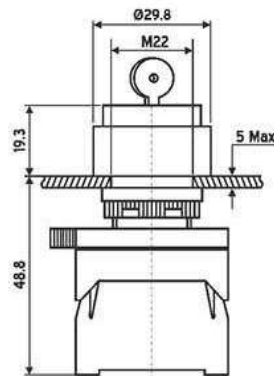
**KEY REMOVABLE IN "LEFT HAND" POSITION (stay put)**

Type	Description	Ordering code
A	Actuator	<b>PB5-EG 2</b>
B	Actuator & plastic bracket	<b>PCB5-EG 2</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EG 2*</b>


**KEY REMOVABLE IN "LEFT HAND" POSITION**

(spring return from right to left)

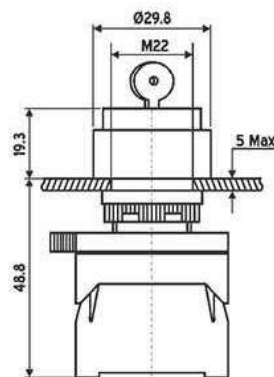
Type	Description	Ordering code
A	Actuator	<b>PB5-EG 4</b>
B	Actuator & plastic bracket	<b>PCB5-EG 4</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-EG 4*</b>


**KEY SWITCHES**

(3 position)

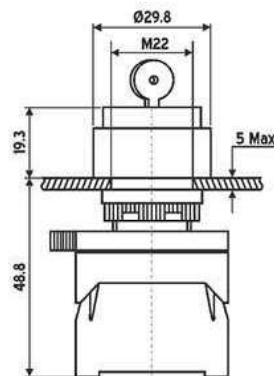
**KEY REMOVABLE IN CENTRE OFF POSITION (Stay put)**

Type	Description	Ordering code
A	Actuator	<b>PB5-EG 3</b>
B	Actuator & plastic bracket	<b>PCB5-EG 3</b>
C	Actuator, plastic & contact block	<b>PCB5-EG 3*</b>


**KEY REMOVABLE IN CENTRE OFF POSITION**

(Spring return from Both Position to Centre)

Type	Description	Ordering code
A	Actuator	<b>PB5-BG 5</b>
B	Actuator & plastic bracket	<b>PCB5-BG 5</b>
C	Actuator, plastic bracket & contact block	<b>PCB5-BG 5*</b>



Add following suffix at \* in the ordering code of push button switches for contact blocks.

1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

**SIGN PUSH BUTTON SWITCHES**

Spring return, flush type (with plastic bracket)

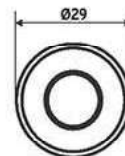
Description	Ordering code
Green colour with 'I' mark	<b>PCB5-EA 331*</b>



Description	Ordering code
Green colour with 'II' mark	<b>PCB5-EA 336*</b>



Description	Ordering code
Red colour with 'O' mark	<b>PCB5-EA 432*</b>

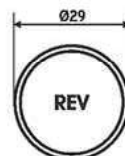


Description	Ordering code
Red colour with 'STOP' mark	<b>PCB5-EA 434*</b>



Green colour with 'START' mark	<b>PCB5-EA 333*</b>
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Description	Ordering code
Green colour with 'REV' mark (REVERSE)	<b>PCB5-EA 337*</b>



Green colour with 'FOW' mark (FORWARD)	<b>PCB5-EA 338*</b>
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Description	Ordering code
White colour with black arrow	<b>PCB5-EA 334*</b>



Black colour with white arrow	<b>PCB5-EA 335*</b>
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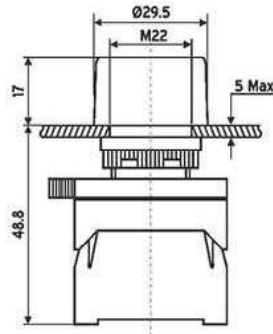
Add following suffix at \* in the ordering code of push button switches for contact blocks.

1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

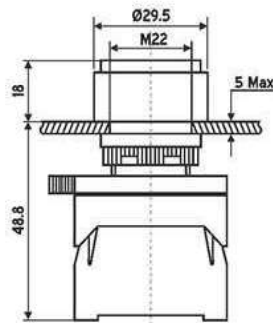
^ Plastic Bracket not shown in the picture

**ILLUMINATED PUSH BUTTON  
(LED TYPE)**
**FLUSH TYPE**

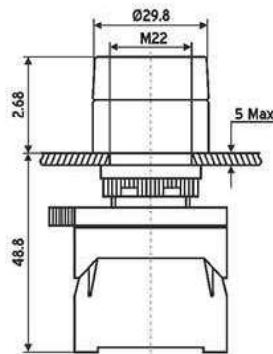
Type	Description	Ordering code
A	Actuator	<b>PB5-EW3( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EW3( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EWL3( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EWL3( )6* #</b>


**PROJECTING TYPE**

Type	Description	Ordering code
A	Actuator	<b>PB5-EWL3( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EWL3( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EWLL3( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EWLL3( )6* #</b>


**SELECTOR SWITCHES  
2 POSITION - STAY PUT**

Type	Description	Ordering code
A	Actuator	<b>PB5-EK2( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EK2( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EKL2( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EKL2( )6* #</b>



Note : Please mention operating voltage while ordering illuminated push buttons

Add following suffixes in the ordering code of push button switches for colour & voltage contact blocks.

( ) 1 = White, 3 = Green, 4 = Red, 5 = Yellow, 6 = Blue

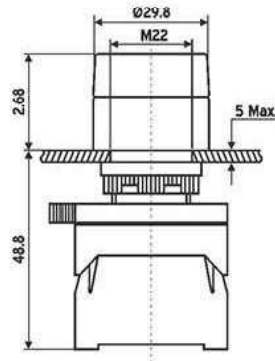
\* 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

# 24, 110, 220 V AC & 24, 110, 220 V DC

For Push to On & Push to Off Actuator in Flush and Projecting type, Add 'Z' after 'W' in Flush type e.g. PB5-EWZ3( ) and after 'L' in Projecting type e.g. PB5-EWLZ3( )

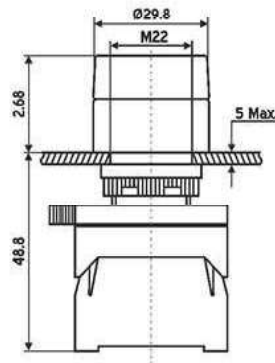
### 2 POSITION - SPRING RETURN FROM RIGHT TO LEFT

Type	Description	Ordering code
A	Actuator	<b>PB5-EKR2( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EKR2( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EKLR2( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EKLR2( )6* #</b>



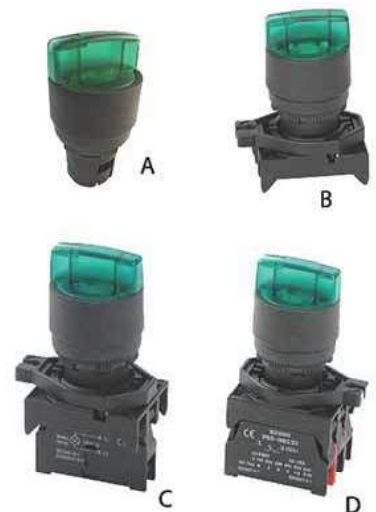
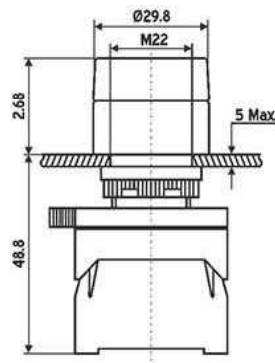
### 3 POSITION - STAY PUT

Type	Description	Ordering code
A	Actuator	<b>PB5-EK3( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EK3( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EKL3( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EKL3( )6* #</b>



### 3 POSITION - SPRING RETURN FROM BOTH POSITION TO CENTRE

Type	Description	Ordering code
A	Actuator	<b>PB5-EKR3( )</b>
B	Actuator with Plastic Bracket	<b>PCB5-EKR3( )</b>
C	Actuator with Plastic Bracket & LED Holder with LED	<b>PCB5-EKLR3( )6 #</b>
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	<b>PCB5-EKLR3( )6* #</b>



Note : Please mention operating voltage while ordering illuminated push buttons

Add following suffixes in the ordering code of push button switches for colour & voltage contact blocks.

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\* 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC

# 24, 110, 220 V AC & 24, 110, 220 V DC

**TWIN PUSH BUTTON SWITCHES**

(with plastic bracket)

Description	Ordering code
Both Red & Green buttons flush type 'O' & 'I' Marked	<b>PCB5- EB832</b>



Description	Ordering code
Red projecting type with 'O' mark Green flush type with 'I' mark	<b>PCB5- EB842</b>


**ILLUMINATED TWIN PUSH BUTTON SWITCHES**

(with plastic bracket)

Description	Ordering code
Red & Green both buttons flush type & with amber lens marked 'I' & 'O'	<b>PCB5-EBW 836</b>



Description	Ordering code
Red projecting type with 'O' mark Green flush type with 'I' mark with amber lens	<b>PCB5-EBW 846</b>



^ Plastic Bracket not shown in the Picture

**LED MODULE PILOT LIGHTS**

Type	Description	Ordering code
A	Pilot Light Head	<b>PB5-EVO( )</b>
B	Led Holder with Led & Plastic Bracket	<b>PCB5-EWM( )6 #</b>
C	Assembly	<b>PCB5-EWVM( )6 #</b>



A



B



C

 Add following suffixes in the ordering code for colour & voltage.  
 ( ) 1 = White, 3 = Green, 4 = Red, 5 = Yellow, 6 = Blue  
 # 24, 110, 220 V AC & 24, 110, 220 V DC



**CONTACT BLOCK CAPTIVE CONNECTION**
**CONTACT ELEMENT 'NO'**


Ordering code

**PB5 BE101**
**CONTACT ELEMENT 'NC'**

**PB5 BE102**
**AUXILIARY CONTACT**

**PB5 EF2**
**PLASTIC BRACKET**


Ordering code

**PB5 E**
**LED HOLDER**

**PB5-EW..**
**LED HOLDER WITH LED**

**PB5-EWL6( )#**
**TECHNICAL DATA**

Standard conformity IS : 13947 (Part 5/SEC-1) & IEC : 947-5(1)  
 Thermal current 10 Amps.  
 Ambient temperature -25° C to +70° C  
 Rated Insulation voltage  $U_i = 600V$  Pollution Grade is 3  
 Rated operating characteristics (As per IEC-60947-5-1)

**Electrical durability**

**AC 15 : A 600** or  $U_e = 240V$  &  $I_e = 3A$   
**DC 13 : Q 600** or  $U_e = 250V$  &  $I_e = 3A$   
 1 million operations  
 at 3000 cycles per hour  
**AC 15 : V**

V	110	230/240	400	500
A	6	3	2	1.6

**Mechanical durability**

3 million operations  
 Electrical life Depends on load current  
 Degree of protection IP65 Flush Head and Projecting Head, with or without Indication Lamp button with cover

**Dielectric test voltage**  
**Terminal connections**

2.5KV AC for 1 minute  
 0.75mm<sup>2</sup> to 2.5mm<sup>2</sup>  
 minimum 1x0.5mm<sup>2</sup>

**Altitude**
**Terminal marking**

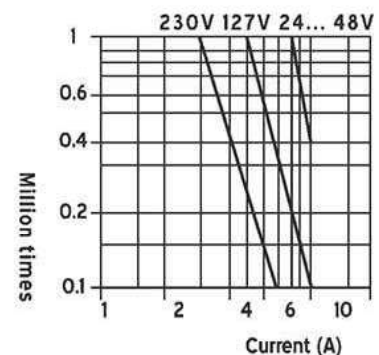
<3000 meters  
 1-2 for normally closed  
 3-4 for normally open

**Contact operation**
**Short circuit protection**

Self wiping, slow break NO or NC  
 10A cartridge, fuse HRC type  
 rated for resistive loading

**Cut-out required**

22.5 mm. dia.



All dimensions are in mm.

Due to continuous improvement in products, we reserve the right to alter specifications without prior notice