

PB5 - SERIES

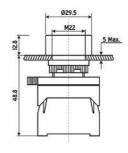
- Characteristics Aesthetically elegant
  Self wiping contacts ensure trouble free operation
  - Safe in operation, locking device unaffected by vibration
  - Protection against electrical shock (unit earthed)
  - Shrouded terminals
  - Modular construction
  - Conform to IEC/EN-60947-5-1

CE

# **SPRING RETURN PUSH BUTTON SWITCHES**

#### **FLUSH TYPE**

Туре	Description	Ordering code
Α	Actuator	PB5-EA()
В	Actuator & plastic bracket	PCB5-EA()
С	Actuator, plastic bracket & contact block	PCB5-EA()*

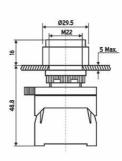




C

#### **PROJECTING TYPE**

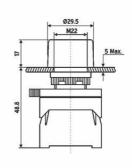
Туре	Description	Ordering code
Α	Actuator	PB5-EL()
В	Actuator & plastic bracket	PCB5-EL()
C	Actuator, plastic bracket & contact block	PCB5-EL()*





#### **BOOTED TYPE**

Туре	Description	Ordering code
A	Actuator	PB5-EP()
В	Actuator & plastic bracket	PCB5-EP()
C	Actuator, plastic bracket & contact block	PCB5-EP()*





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

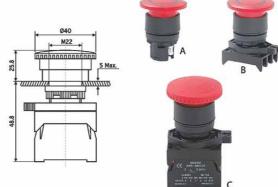
\* 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC



**PB5 - SERIES** 

#### MUSHROOM HEAD (Ø 40 mm.)

Туре	Description	Ordering code
Α	Actuator Red	PB5-EC4
В	Actuator & plastic bracket	PCB5-EC4
C	Actuator, plastic bracket & contact block	PCB5-EC4*



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

Туре	Description	Ordering code
A	Actuator Red	PB5-ES 54
В	Actuator & plastic bracket	PCB5-ES 54
c	Actuator, plastic bracket & contact block	PCB5-ES 54*

48.8

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)

Туре	Description	Ordering code
Α	Actuator	PB5-ET()
В	Actuator & plastic bracket	PCB5-ET()
С	Actuator, plastic bracket & contact block	PCB5-ET()*



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



PB5 - SERIES

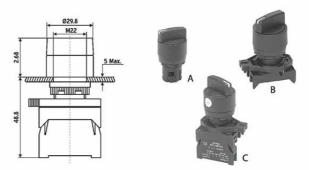
# **SELECTOR SWITCHES**

(Non illuminated)

# **TWO POSITION**

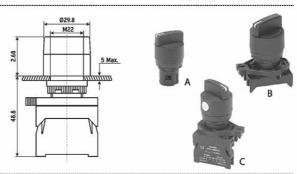
STAY PUT (standard knob)

Туре	Description	Ordering code
A	Actuator	PB5-ED 2
В	Actuator & plastic bracket	PCB5-ED 2
C	Actuator, plastic bracket & contact block	PCB5-ED 2*



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

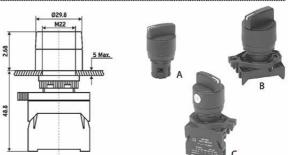
Туре	Description	Ordering code
A	Actuator	PB5-ED R2
В	Actuator & plastic bracket	PCB5-ED R2
C	Actuator, plastic bracket & contact block	PCB5-ED R2*



# **THREE POSITION**

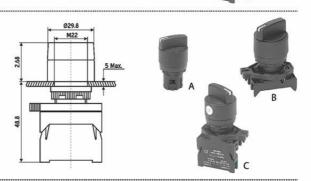
# STAY PUT CENTRE OFF (standard knob)

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



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

Туре	Description	Ordering code
Α	Actuator	PB5-ED R3
В	Actuator & plastic bracket	PCB5-ED R3
C	Actuator, plasticl bracket & contact block	PCB5-ED R3*



Add following suffix at \* in the ordering code of push putton 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



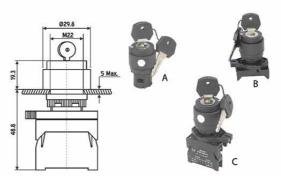
PB5 - SERIES

# **KEY SWITCHES**

(2 position)

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

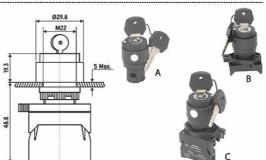
Туре	Description	Ordering code
A	Actuator	PB5-EG 2
В	Actuator & plastic bracket	PCB5-EG 2
C	Actuator, plastic bracket & contact block	PCB5-EG 2*



# KEY REMOVABLE IN "LEFT HAND" POSITION

(spring return from right to left)

Туре	Description	Ordering code
A	Actuator	PB5-EG 4
В	Actuator & plastic bracket	PCB5-EG 4
С	Actuator, plastic bracket & contact block	PCB5-EG 4*

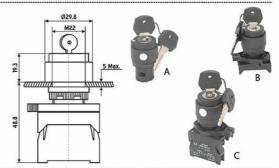


# **KEY SWITCHES**

(3 position)

# KEY REMOVABLE IN CENTRE OFF POSITION (Stay put)

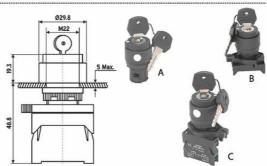
Туре	Description	Ordering code
A	Actuator	PB5-EG 3
В	Actuator & plastic bracket	PCB5-EG 3
C	Actuator, plastic & contact block	PCB5-EG 3*



# KEY REMOVABLE IN CENTRE OFF POSITION

(Spring return from Both Position to Centre)

Туре	Description	Ordering code
A	Actuator	PB5-BG 5
В	Actuator & plastic bracket	PCB5-BG 5
С	Actuator, plastic bracket & contact block	PCB5-BG 5*



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



Green colour with 'II' mark

Green colour with 'START' mark

# PUSH BUTTON SWITCHES (22.5 mm.)

**PB5- SERIES** 

# SIGN PUSH BUTTON SWITCHES

Spring return, flush type (with plastic bracket)

Description	Ordering code	
Green colour with ' I ' mark	PCB5-EA 331*	

Description	Ordering code

PCB5-EA 336\*

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

Description	Ordering code	
Red colour with 'STOP' mark	PCB5-EA 434*	
Green colour	PCB5-EA 333*	

Description	Ordering code
Green colour	PCB5-EA 337
with 'REV' mark (REVERSE)	

PCB5-EA 338\* Green colour with 'FOW' mark (FORWARD)

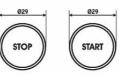
Description	Ordering code
White colour with black <b>arrow</b>	PCB5-EA 334*
DI I I	DCD= E4 225*

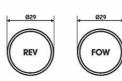
PCB5-EA 335\* Black colour with white arrow

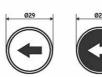
























Add following suffix at \* in the ordering code of push button switches for contact blocks. 1 = NO contact, 2 = NC contact, 3 = NO+NO, 4 = NC+NC, 5 = NO+NC A = 2NO+NC B = NO+2NC C = 2NO+2NC Plastic Bracket not shown in the picture

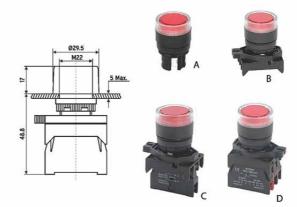


**PB5 - SERIES** 

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

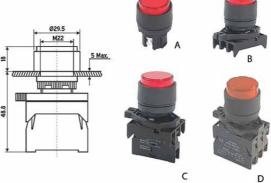
#### **FLUSH TYPE**

Туре	Description	Ordering code
A	Actuator	PB5-EW3()
В	Actuator with Plastic Bracket	PCB5-EW3()
С	Actuator with Plastic Bracket & LED Holder with LED	PCB5-EWL3()6#
D	Actuator with Plastic Bracket & LED Holder	PCB5-EWL3()6*#
	with LED and Contact Block	



#### PROJECTING TYPE

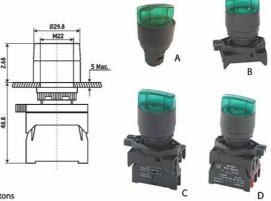
Туре	Description	Ordering code	2	шши	
A	Actuator	PB5-EWL3()		<u> </u>	
В	Actuator with Plastic Bracket	PCB5-EWL3()	8.8		
C	Actuator with Plastic Bracket & LED Holder with LED	PCB5-EWLL3()6#		1	
D	Actuator with Plastic Bracket & LED Holder	PCB5-EWLL3()6*#	*		



# **SELECTOR SWITCHES** 2 POSITION - STAY PUT

with LED and Contact Block

Type	Description	Ordering code	2.68	
Α	Actuator	PB5-EK2()	* 4111	
В	Actuator with Plastic Bracket	PCB5-EK2()		
С	Actuator with Plastic Bracket & LED Holder with LED	PCB5-EKL2()6#	8.8	1
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	PCB5-EKL2()6*#	•	<u></u>



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

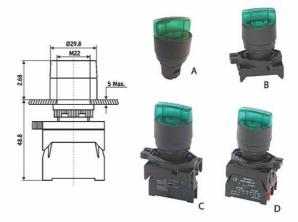
# 24,110,220 V AC & 24,110,220 V DC

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-EWZ3()

PB5 - SERIES

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

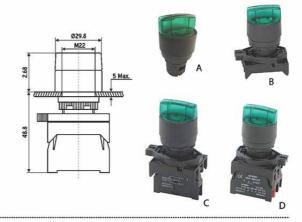
Type	Description	Ordering code
Α	Actuator	PB5-EKR2()
В	Actuator with Plastic Bracket	PCB5-EKR2()
С	Actuator with Plastic Bracket & LED Holder with LED	PCB5-EKLR2()6#
D	Actuator with Plastic Bracket & LED Holder with LED and Contact Block	PCB5-EKLR2()6*#



#### 3 POSITION - STAY PUT

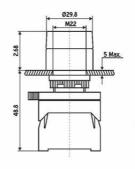
Туре	Description	Ordering code
A	Actuator	PB5-EK3()
В	Actuator with Plastic Bracket	PCB5-EK3()
C	Actuator with Plastic Bracket & LED Holder	PCB5-EKL3()6#
	with LED	36%

Actuator with Plastic Bracket & LED Holder PCB5-EKL3()6\*# with LED and Contact Block



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

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









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



PB5 - SERIES

# TWIN PUSH BUTTON SWITCHES

(with plastic bracket)

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

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

# **ILLUMINATED TWIN PUSH BUTTON SWITCHES**

(with plastic bracket)

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

Description Ordering code **PCB5-EBW 846** Red projecting type with 'O' mark Green flush type









∧ Plastic Bracket not shown in the Picture

# LED MODULE PILOT LIGHTS

with 'I' mark with amber lens

Туре	Description	Ordering code
Α	Pilot Light Head	PB5-EVO()
В	Led Holder with Led & Plastic Bracket	PCB5-EWM()6#
C	Assembly	PCB5-EWVM()6#

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









PB5 - SERIES

#### **CONTACT BLOCK CAPTIVE CONNECTION**

**CONTACT ELEMENT 'NO'** 

CONTACT ELEMENT 'NC'

**AUXILARY CONTACT** 







Ordering code

**PB5 BE101** 

**PB5 BE102** 

PB5 EF2

PLASTIC BRACKET



**LED HOLDER** 



LED HOLDER WITH LED



Ordering code

PB5 E

PB5-EW..

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 Ui = 600V Pollution Grade is 3

Rated operating characterisitics (As per IEC-60947-5-1)

AC 15: A 600 or Ue = 240V & le = 3A

DC 13: Q 600 oer Ue = 250V & le = 3A 1 million operations **Electrical durability** 

at 3000 cycles per hour AC 15: V 110 230/240 400 500 A 6 3 2 1.6

3 million operations Depends on load current Mechanical durability Electrical life Degree of protection

IP65 Flush Head and Projecting Head, with or

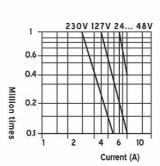
without Indication Lamp button with cover

Dielectric test voltage 2.5KV AC for 1 minute Terminal connections 0.75mm<sup>2</sup> to 2.5mm<sup>2</sup> minimum 1x0.5mm² Altitude

<3000 meters 1-2 for normally closed Terminal marking

3-4 for normally open Self wiping, slow break NO or NC Contact operation Short circuit protection 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