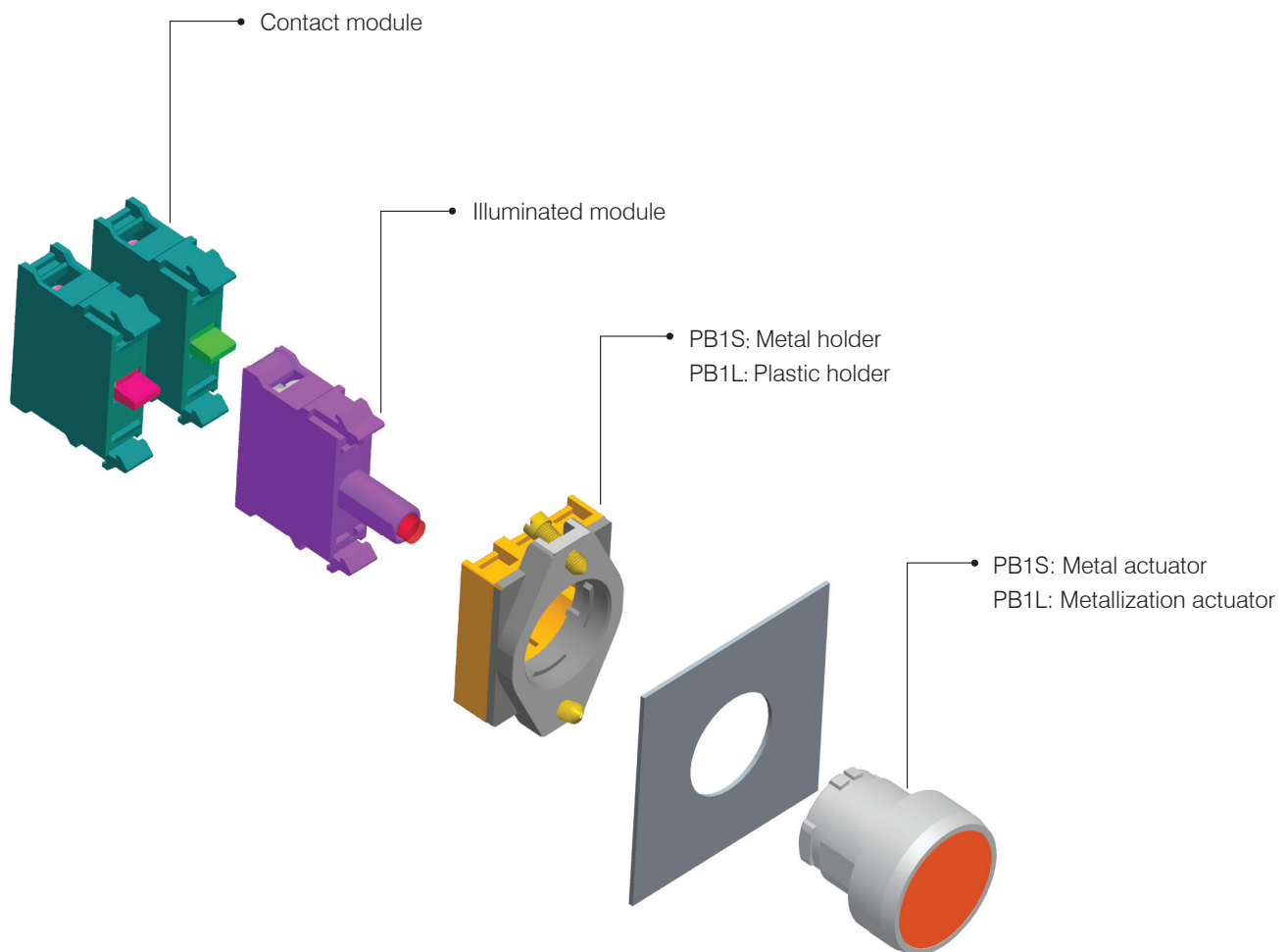


## PB1S Metal Push Button Switch Siemens APT

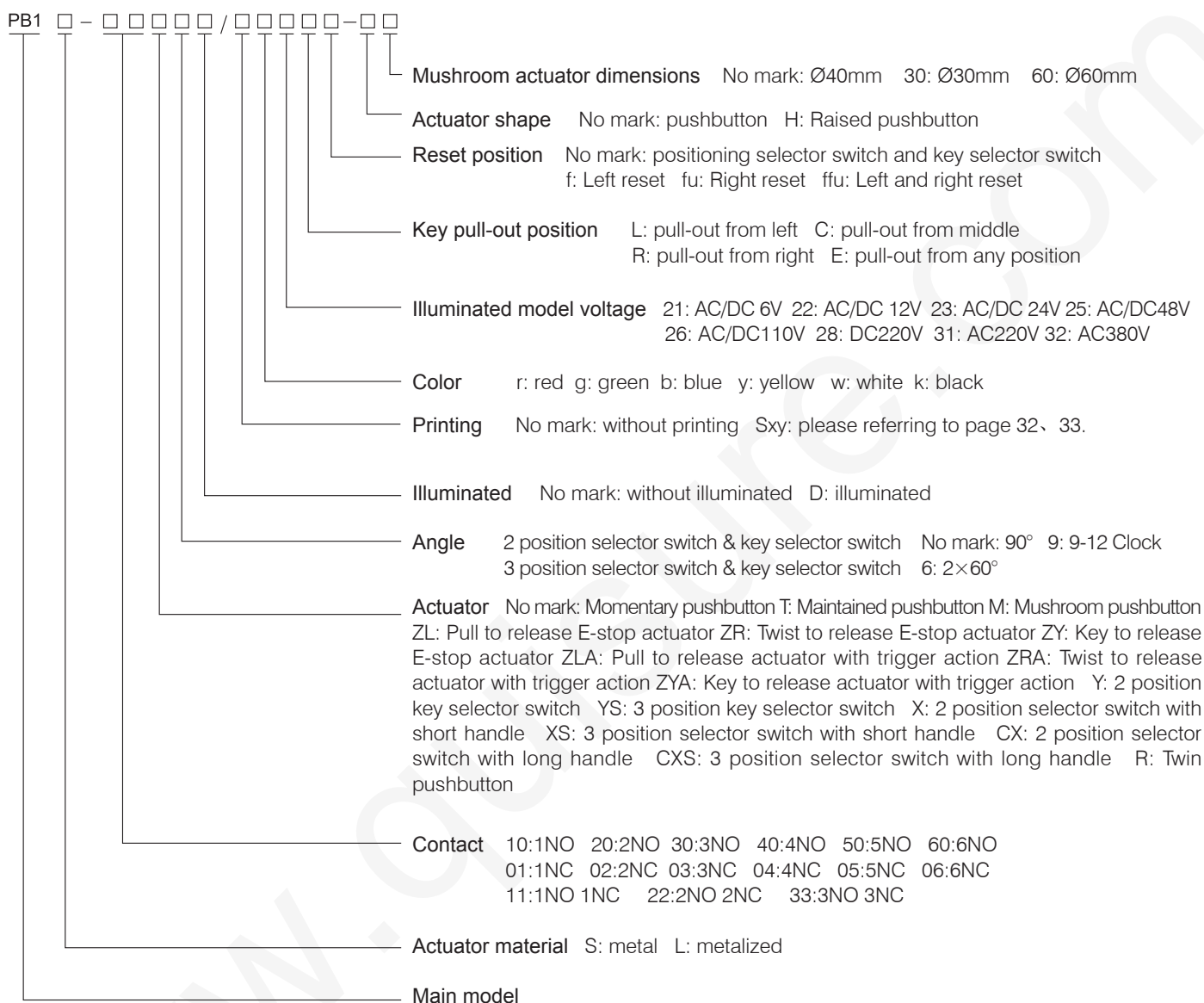
### PB1 introduction

- RoHS material.
- Modularized design with easy installation.
- Protection class: IP65.



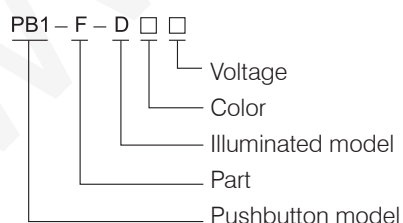
## Part model & Model

### Model definition

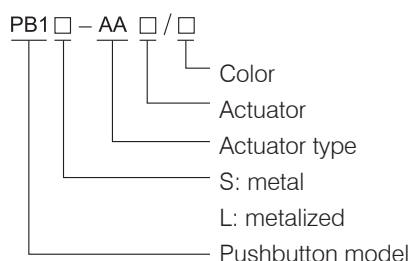


### Part model

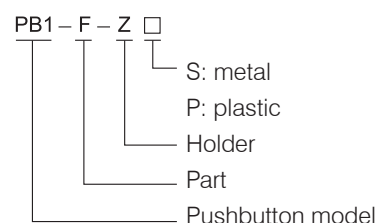
#### Illuminated model



#### Actuator



#### Holder



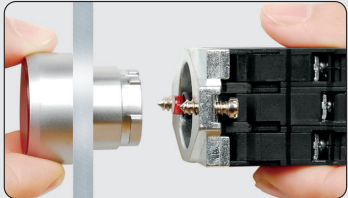
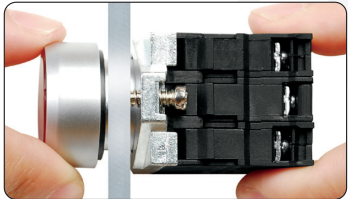
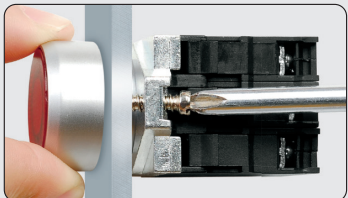
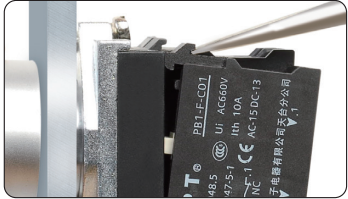
## Technical Data

### Technical data

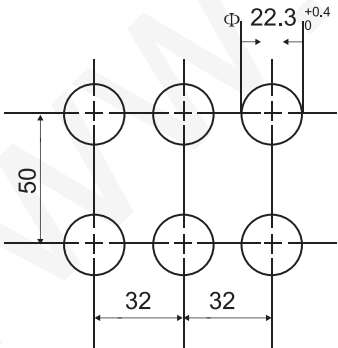
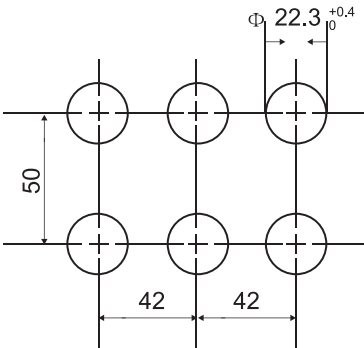
Standards:	IEC60947 Part1, IEC60947 Part 5-1, IEC60947 Part 5-5 GB14048.5, GB14048.1 GB14048.14 ISO13850							
Rated Insulation Voltage $U_i$ :	AC 600V, 50Hz illumination module: AC440V, 50Hz; DC250V							
Rated Impulse Withstand Voltage $U_{imp}$ :	AC 1890V 50Hz.1min							
Conventional Thermal Current $I_{th}$ :	10A							
Rated Load:	Load type Rated operation voltage $U_e$		24V	48V	110V	220V	380V	440V
	AC-12	Rated operation current $I_e$	10A	-	10A	10A	10A	10A
	DC-12		10A	8A	3.5A	1A	-	-
	AC-15		6A	-	6A	6A	4A	4A
	DC-13		6A	4A	1.2A	0.4A	-	-
Illuminated data:	Voltage number		21	22	23	25	26	28 31 32
	Voltage(V)AC/DC6VAC/DC12VAC/DC24V C/DC48V AC/DC110VDC220VAC220V AC380V							
	Current (mA)		18	17	16	11	18	5 19 12
Pollution Class:	3							
Mechanical Endurance:	Pushbutton & Illuminated pushbutton & Mushroom pushbutton: $3 \times 10^6$ times Selector switch & Compact pushbutton & Twin pushbutton & Maintained pushbutton: $3 \times 10^5$ times Key selector switch & E-stop actuator: $5 \times 10^4$ times Contact model: $3 \times 10^6$ times							
Operating Frequency:	1200 times/1hour							
Electrical Endurance:	$5 \times 10^5$ times $I_e$ / AC-15 at 6A/220V/230V Min. load: DC24V 5mA							
Operation Temperature:	Operation -25°C -70°C Storage -40°C -80°C							
Protection Class:	IP65 Key selector switch IP54 Contact model and illuminated model IP20							
Shock Amplitude:	$\leq 15g$ (IEC60068 2-27)							
Impact Amplitude:	$\leq 5g$ 10-500Hz (IEC60068 2-6)							
Contact Resistance:	$< 50m\Omega$							
Contact Material:	AgNi10/Cu							

## Installation Mounting-hole Dimensions

### How to install?

<p>1. Installing the actuator into the mounting-hole.</p>	
<p>2. Installing the holder.</p>	
<p>3. Tighten the screws on holder.</p>	
<p>4. Dismantle the switching element or the lighting element: for simply demounting the installed element, hold up the buckle of lock-type installation system with a straight screwdriver.</p>	

### Mounting-hole Size

Pushbutton	E-stop pushbutton, Mushroom pushbutton, Select switch with long-handle
	

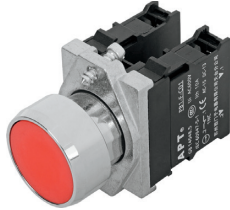
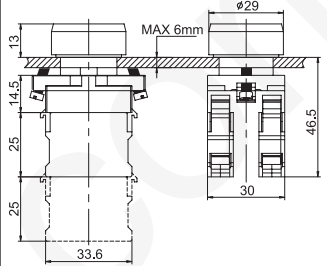

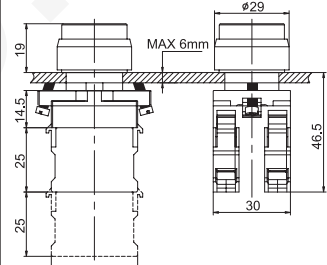

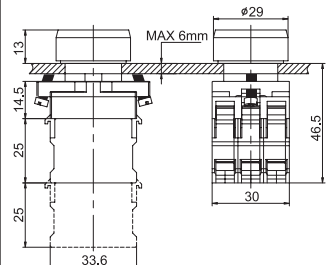

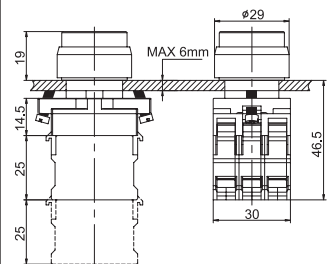
### Notes:

- The tightening torque of wiring screw for switching element is 0.8-1.2Nm.
- The screw tightening torque of metal installation middle seat is no larger than 1Nm, and that of metalized installation middle seat is no larger than 0.8Nm.
- After installing the switching element or the lighting element, check whether the buckle is clipped in completely.

# PB1S

## Product selection

### Pushbutton/Raised pushbutton/Illuminated pushbutton/Raised illuminated pushbutton




Name	Type	Status	Model	Color	Rated voltage of illumination module	Dimensions
Pushbutton		Momentary	PB1S-■/▲	red-r green-g yellow-y		
		Maintained	PB1S-■T/▲	blue-b white-w black-k		
Raised pushbutton		Momentary	PB1S-■/▲-H	red-r green-g yellow-y blue-b		
		Maintained	PB1S-■T/▲-H	white-w black-k		
Illuminated Pushbutton		Momentary	PB1S-■D/▲★	red-r green-g yellow-y blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 25-AC/DC 48V 26-AC/DC 110V	
		Maintained	PB1S-■TD/▲★	white-w	28-DC 220V 31-AC 220V 32-AC 380V	
Raised illuminated pushbutton		Momentary	PB1S-■D/▲★-H	red-r green-g yellow-y blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 25-AC/DC 48V 26-AC/DC 110V	
		Maintained	PB1S-■TD/▲★-H	white-w	28-DC 220V 31-AC 220V 32-AC 380V	

### Notes:

- : The type of contact module.
- ▲ : The color of handle.
- ★ : Rated voltage of illumination module.


## Accessories

### Accessories

Name	Type	Model	Description	Function
Contact module		PB1-F-C10	1NO	Contact module
		PB1-F-C01	1NC	
Illuminated module		PB1-F-D/▲★	▲ : Color ★ : Rated voltage	Illuminated module
Holder		PB1-F-ZS	S: metal	Holder
		PB1-F-ZP	P: Plastic	
Seal cover		PB1-F-M1	Only PB1S use	Select and use
		PB1-F-M2	Only PB1L use	
Protecting cover		F1	IP65	Select and use
		F2	Metal	Select and use

## Accessories

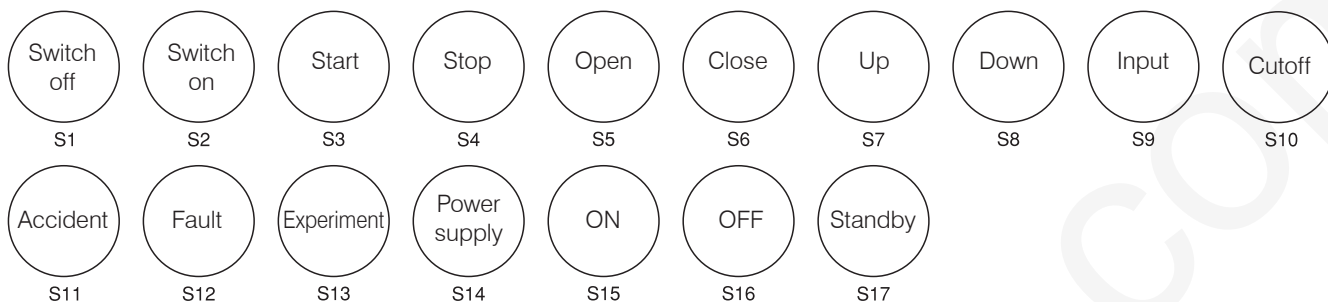
### Accessories

Name	Type	Model		Description	Function
Protective cap		F3-1		Plastic	
		F3-2		Plastic	
		F3-3		Plastic	
Installing ring		F7		Φ30mm	Select and use
Label holder		PB1-F-B11-10 书写面积25×10mm PB1-F-B11-18 书写面积25×18mm		Φ22.5mm	
Label panel		PB1-F-B12		Φ22.5mm	
Yellow name plate		F13-60 F13-90	Φ60 Φ90	Φ22.5mm	Used for emergency-stop pushbutton
		F14a-40 F14a-60	Φ40 Φ60		
		F14b-60 F14b-90	Φ60 Φ90		

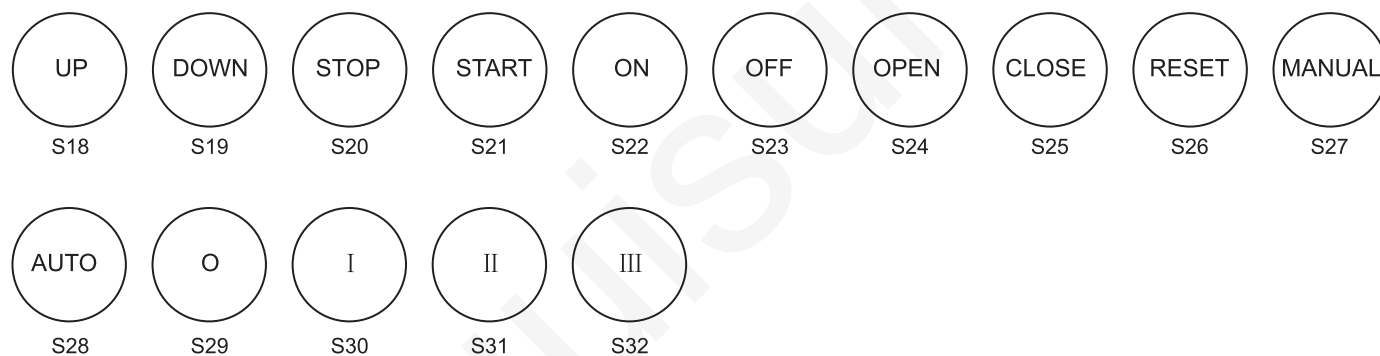
## Printing symbol

### Printing symbol

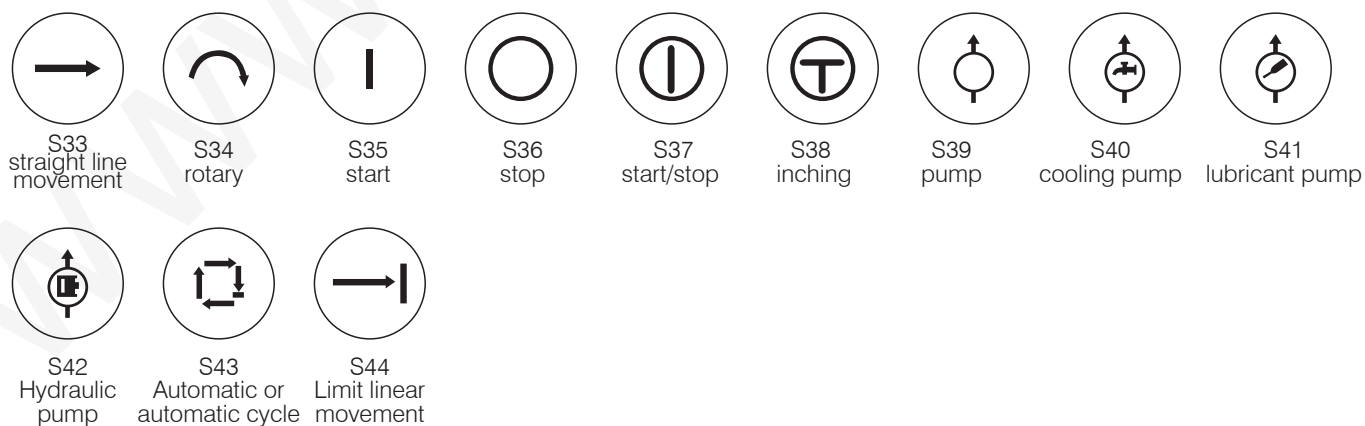
### Chinese symbol



### Standard symbol



### ISO symbols





## Printing symbol

Stop      Start SX1	Switch off   Switch on SX2	Manual   Automatic SX3	Close      Open SX4	Close      Open SX5	Inspection   Reset SX6
I      O SX7	O      I SX8	I      O      II SX9	II      O      I SX10	1      0      2 SX11	2      0      1 SX12
OFF-ON SX13	STOP-START SX14	HAND-AUTO SX15	REV-FOR SX16		