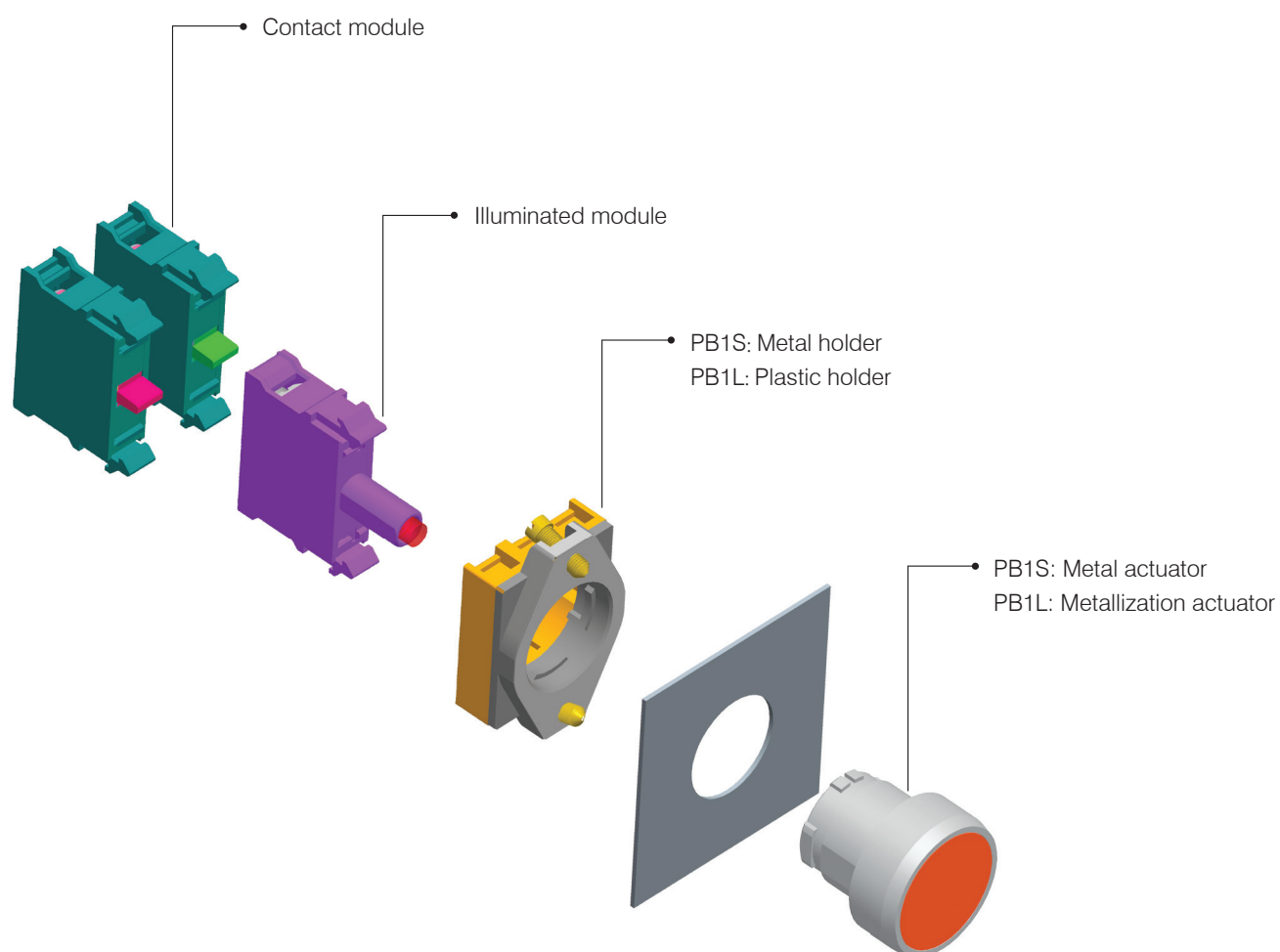


PB1L Push Button Switch 22mm Siemens APT

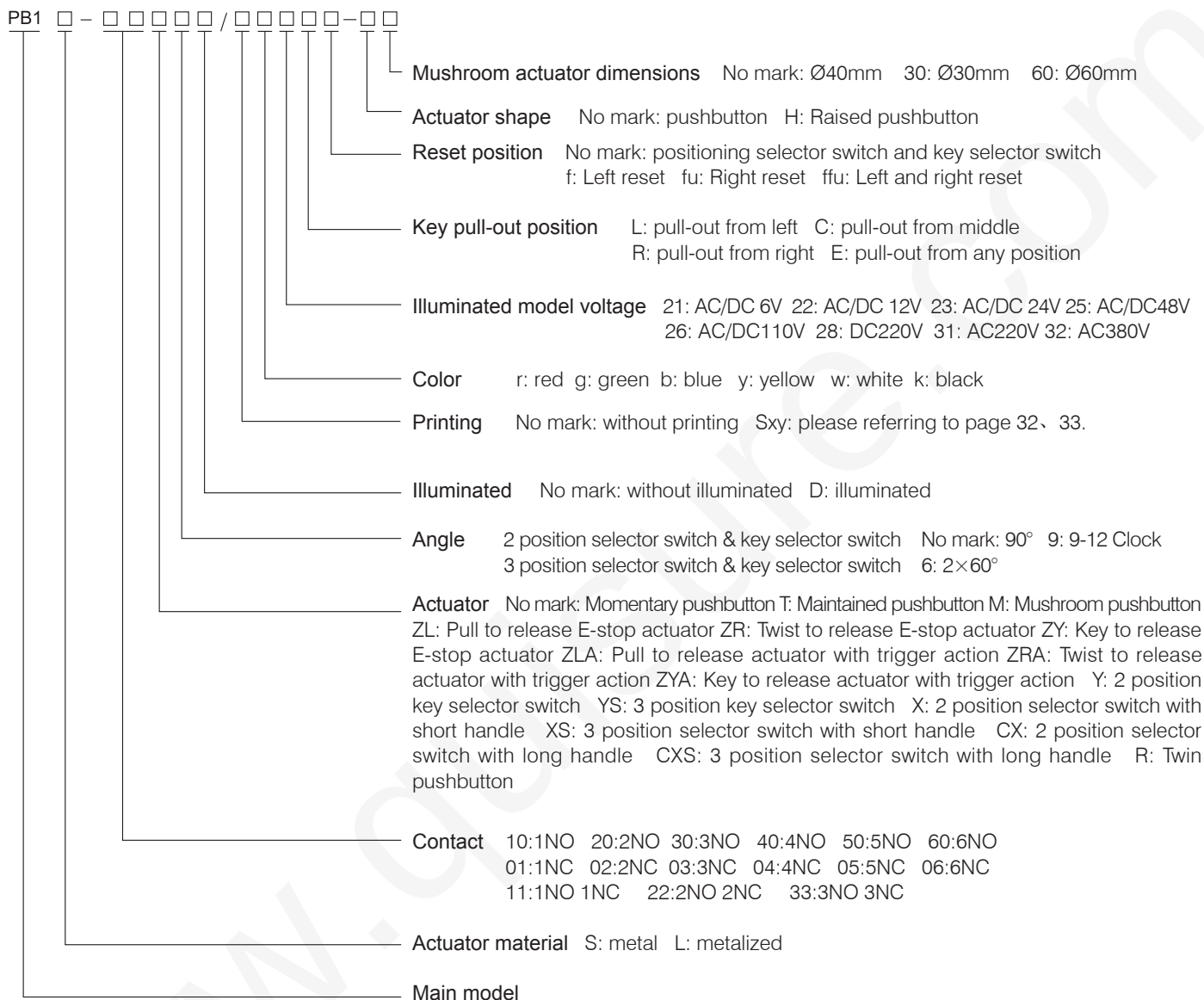
PB1 push button introduction

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



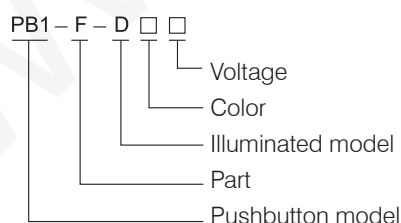
Model Description

Model

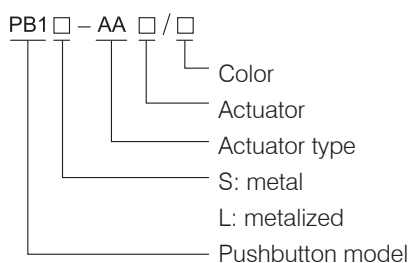


Part model

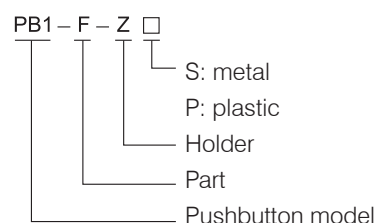
Illuminated model



Actuator



Holder



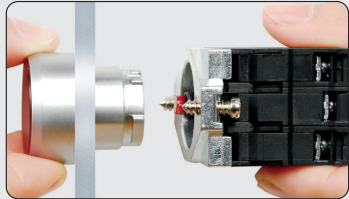
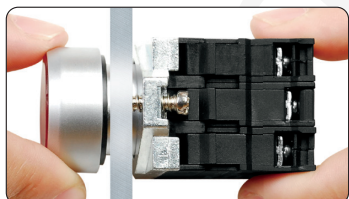
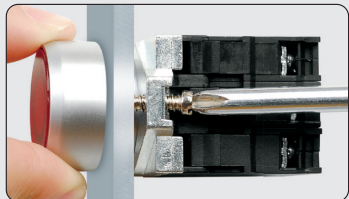
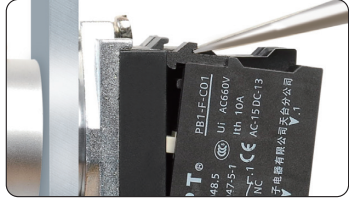
Technical Data

Technical data

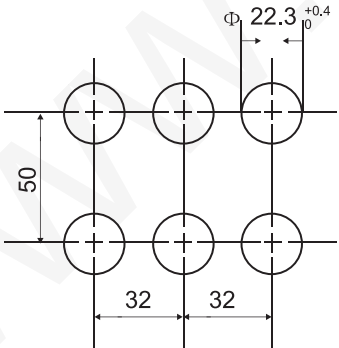
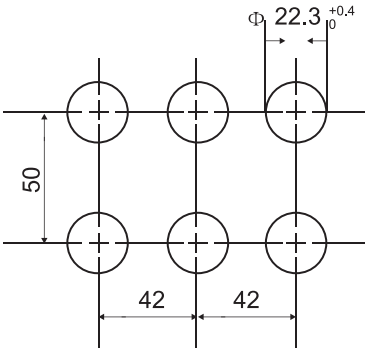
Standards:	IEC60947 Part1, IEC60947 Part 5-1, IEC60947 Part 5-5 GB14048.5, GB14048.1 GB14048.14 ISO13850									
Rated Insulation Voltage Ui:	AC 600V, 50Hz illumination module: AC440V, 50Hz; DC250V									
Rated Impulse Withstand Voltage Uimp:	AC 1890V 50Hz.1min									
Conventional Thermal Current Ith:	10A									
Rated Load:	Load type Rated operation voltage Ue				24V	48V	110V	220V	380V	440V
	AC-12	Rated operation current Ie			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: 3×10 ⁶ times Selector switch & Compact pushbutton & Twin pushbutton &Maintained pushbutton: 3×10 ⁵ times Key selector switch & E-stop actuator: 5 X10 ⁴ times Contact model: 3X10 ⁶ times									
Operating Frequency:	1200 times/1hour									
Electrical Endurance:	5 X10 ⁵ times Ie / AC-15 at 6A/220V/230V Min. load: DC24V 5mA									
Operation Temperature:	Operation -25℃ -70℃ Storage -40℃ -80℃									
Protection Class:	IP65 Key selector switch IP54 Contact model and illuminated model IP20									
Shock Amplitude:	≤15g (IEC60068 2-27)									
Impact Amplitude:	≤5g 10-500Hz (IEC60068 2-6)									
Contact Resistance:	<50mΩ									
Contact Material:	AgNi10/Cu									

Installation Mounting-hole Dimensions

Installation

1. Installing the actuator into the mounting-hole.	
2. Installing the holder.	
3. Tighten the screws on holder.	
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.	

Mounting-hole Size

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

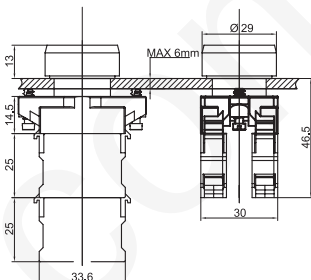
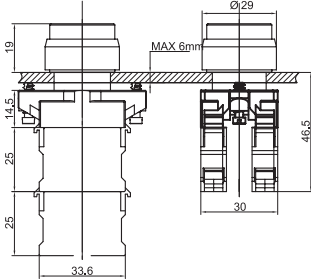
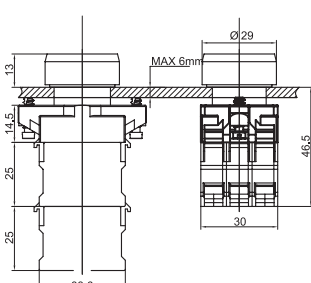
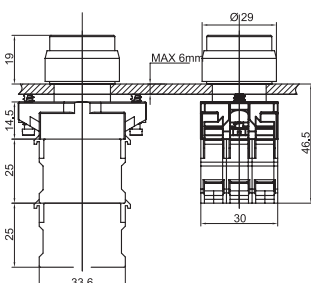
Notes:

- 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.

PB1L Model Selection

Model selection

Pushbutton/Raised pushbutton/Illuminated pushbutton/Raised illuminated pushbutton

Name	Type	Status	Model	Color	Rated voltage of illumination module	Dimensions
Pushbutton		Momentary Maintained	PB1L-■/▲ PB1L-■T/▲	red-r green-g yellow-y blue-b white-w black-k		
Raised pushbutton		Momentary Maintained	PB1L-■/▲-H PB1L-■T/▲-H	red-r green-g yellow-y blue-b white-w black-k		
Illuminated pushbutton		Momentary Maintained	PB1L-■D/▲★ PB1L-■TD/▲★	red-r green-g yellow-y blue-b white-w	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 25-AC/DC 48V 26-AC/DC 110V 28-DC 220V 31-AC 220V 32-AC 380V	
Raised illuminated pushbutton		Momentary Maintained	PB1L-■D/▲★-H PB1L-■TD/▲★-H	red-r green-g yellow-y blue-b white-w	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 25-AC/DC 48V 26-AC/DC 110V 28-DC 220V 31-AC 220V 32-AC 380V	

Notes:

1. ■ : The type of contact module.
2. ▲ : The color of handle.
3. ★ : Rated voltage of illumination module.

Accessories

Accessories

Name	Type	Model		Description	Function
Momentary pushbutton		PB1S-AA/▲ PB1L-AA/▲		▲: color r-red g-green b-blue y-yellow w-white k-black	Actuator
Maintained pushbutton		PB1S-AAT/▲ PB1L-AAT/▲			
Illuminated momentary pushbutton		PB1S-AAD/▲ PB1L-AAD/▲		▲: color r-red g-green b-blue y-yellow w-white	
Illuminated maintained pushbutton		PB1S-AATD/▲ PB1L-AATD/▲			
Raised momentary pushbutton		PB1S-AA/▲-H PB1L-AA/▲-H		▲: color r-red g-green b-blue y-yellow w-white k-black	
Raised maintained pushbutton		PB1S-AAT/▲-H PB1L-AAT/▲-H			
Raised illuminate momentary pushbutton		PB1S-AAD/▲-H PB1L-AAD/▲-H		▲: color r-red g-green b-blue y-yellow w-white	
Raised illuminate maintained pushbutton		PB1S-AATD/▲-H PB1L-AATD/▲-H			
Select switch with short handle		2 position	PB1S-AAX/▲ PB1L-AAX/▲	▲: color r-red g-green b-blue y-yellow w-white k-black Reset function code after the color.	
		3 position	PB1S-AAXS6/▲ PB1L-AAXS6/▲		
Select switch with long handle		2 position	PB1S-AACX/▲ PB1L-AACX/▲	▲: color r-red g-green b-blue y-yellow w-white k-black Reset function code after the color.	
		3 position	PB1S-AACXS6/▲ PB1L-AACXS6/▲		
Illuminate select switch with short handle		2 position	PB1S-AAXD/▲ PB1L-AAXD/▲	▲: color r-red g-green b-blue y-yellow w-white Reset function code after the color.	
		3 position	PB1S-AAXS6D/▲ PB1L-AAXS6D/▲		
Illuminate select switch with long handle		2 position	PB1S-AACXD/▲ PB1L-AACXD/▲	▲: Filled with color r-red g-green b-blue y-yellow w-white Reset function code after the color.	
		3 position	PB1S-AACXS6D/▲ PB1L-AACXS6D/▲		
Key-operated switch		2 position	PB1S-AAY/ PB1L-AAY/ PB1S-AAY9/ PB1L-AAY9/	The key removal position and reset function code after “/” . 9:  6: 	
		3 position	PB1S-AAYS6/ PB1L-AAYS6/		

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

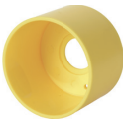
Accessories

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		

Accessories

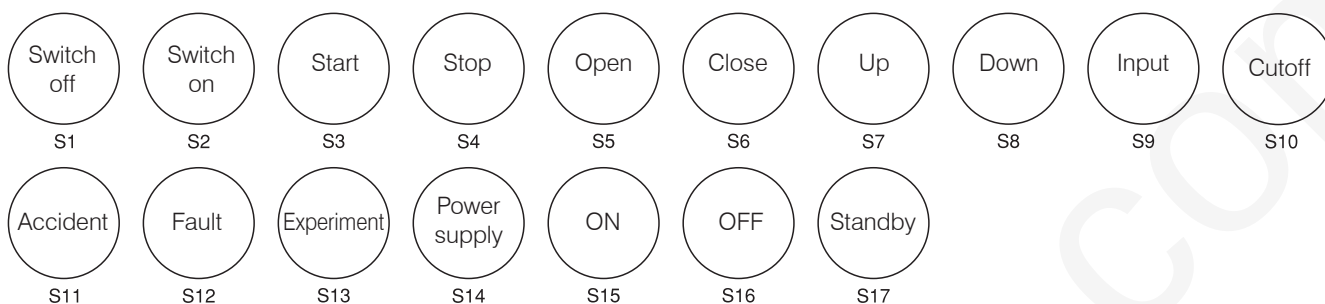
Accessories

Name	Type	Model		Description	Function
E- stop pushbutton protective cover		PB1-F-PC-a60		Φ22.5mm	Used for emergency-stop pushbutton
		PB1-F-PC-b60 PB1-F-PC-b90		Φ22.5mm	
Indicator light installing ring		F15-25 F15-30	Φ25 Φ30	Special for indicator light	Select and use
Indicator light insert label		F-18	POM	Printing	
Blanking plugs		F19	Φ22	Injection molding	

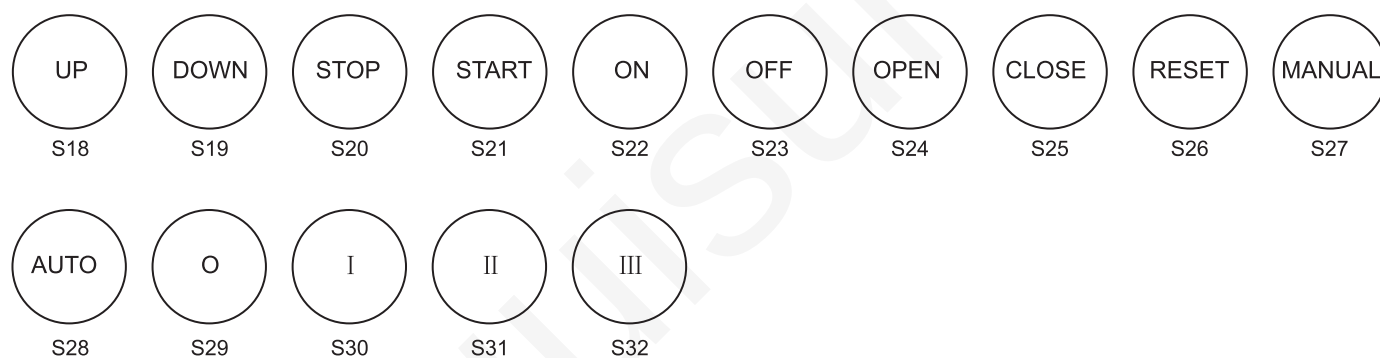
Printing symbol

Printing symbol

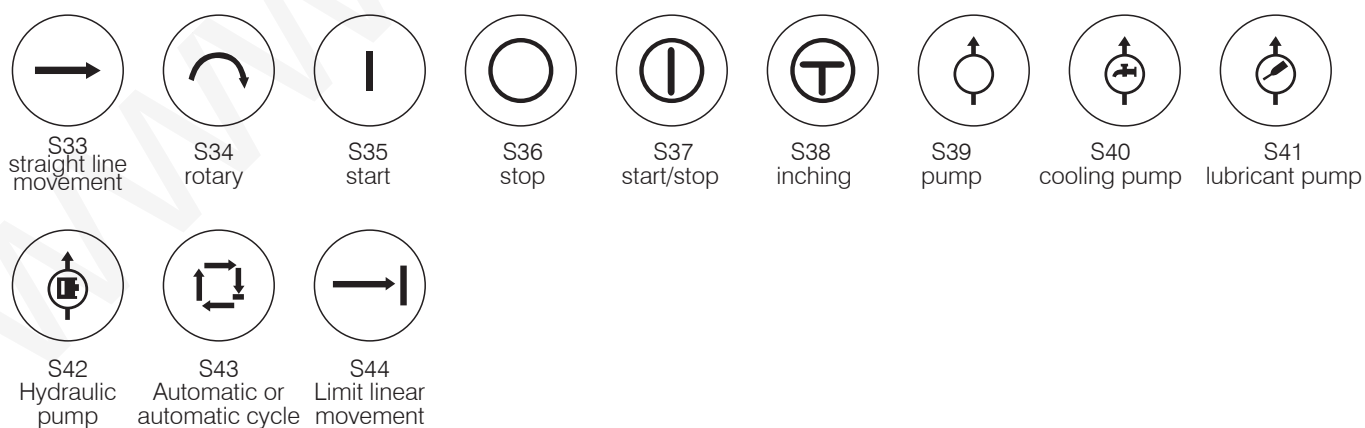
Chinese symbol



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		