CONTENTS

PUSHBUTTONS

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Pushbutton Switch

◆ Pushbutton spring return

Description	Color	Contact type		Type	Overall dimensions
flush pushbuttons		N/O		3SA8-BA11	Ø 29 / 24 / 40×30 / 12 / 43
	●	N/O		3SA8-BA21	
	●	N/O		3SA8-BA31	
	●	N/O		3SA8-BA51	
	●	N/O		3SA8-BA61	
	●		N/C	3SA8-BA22	
	●		N/C	3SA8-BA42	
projecting pushbuttons	●	N/O		3SA8-BL21	Ø 29 / 24 / 40×30 / 20 / 43
	●	N/O		3SA8-BL31	
	●	N/O		3SA8-BL51	
	●	N/O		3SA8-BL61	
	●		N/C	3SA8-BL22	
	●		N/C	3SA8-BL42	
booted pushbuttons	●	N/O		3SA8-BP21	Ø 29 / 24 / 40×30 / 15 / 43
	●	N/O		3SA8-BP31	
	●	N/O		3SA8-BP51	
	●	N/O		3SA8-BP61	
	●		N/C	3SA8-BP42	
mushroom head pushbuttons 40mm	●	N/O		3SA8-BC21	Ø 40 / 24 / 40×30 / 32 / 43
	●	N/O		3SA8-BC31	
	●	N/O		3SA8-BC51	
	●	N/O		3SA8-BC61	
	●		N/C	3SA8-BC42	
mushroom head pushbuttons 60mm	●	N/O		3SA8-BR21	Ø 60 / 24 / 40×30 / 32 / 43
	●		N/C	3SA8-BR42	

◆ Spring return with function symbols on button
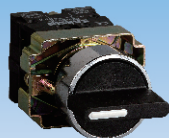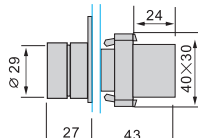
Description	Color	Contact type		Type	Overall dimensions
flush pushbuttons	Ⓘ	N/O		3SA8-BA3311	Ø 29 / 24 / 40×30 / 12 / 43
	↑	N/O		3SA8-BA3341	
	⬆	N/O		3SA8-BA3351	
	●		N/C	3SA8-BA4322	
	STOP		N/C	3SA8-BA4342	
projecting pushbuttons	●		N/C	3SA8-BL4322	Ø 29 / 24 / 40×30 / 20 / 43
	STOP		N/C	3SA8-BL4342	

Pushbutton Switch
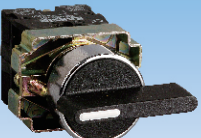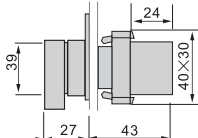
◆ Mushroom head Emergency stop pushbutton

	Description	Contact type		Type	Overall dimensions
	push-pull red	φ40	N/C	3SA8-BT42	
		φ60	N/C	3SA8-BX42	
	turn to release-red	φ30	N/C	3SA8-BS442	
		φ40	N/C	3SA8-BS542	
		φ60	N/C	3SA8-BS642	
	(Ronisn 455) Key release (keyn 455) red	φ30	N/C	3SA8-BS742	
		φ40	N/C	3SA8-BS142	
		φ60	N/C	3SA8-BS242	
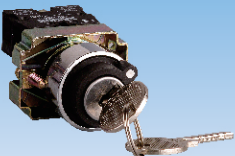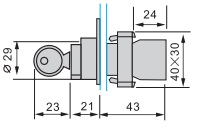
◆ Selector Switches

Description: ∨ Locked   ∇ spring reset   keyout

	Description	Position	Contact type		Type	Overall dimensions
	2positions	∨	N/O		3SA8-BD21	
		∨	N/O	N/C	3SA8-BD25	
		∇	N/O		3SA8-BD41	
		∇	N/O	N/C	3SA8-BD45	
	3 positions	∨	2N/O		3SA8-BD33	
		∇	2N/O		3SA8-BD53	
		∨	2N/O		3SA8-BD73	
		∇	2N/O		3SA8-BD83	

Long handle

		∨	N/O		3SA8-BJ21	
	2positions	∨	N/O	N/C	3SA8-BJ25	
		∇	N/O		3SA8-BJ41	
		∇	N/O	N/C	3SA8-BJ45	
	3 positions	∨	2N/O		3SA8-BJ33	
		∇	2N/O		3SA8-BJ53	
		∨	2N/O		3SA8-BJ73	
		∇	2N/O		3SA8-BJ83	

◆ Ronis n 455
Key switches key n ° 455

		∨	N/o		3SA8-BG21	
	2positions	∨	N/o	N/c	3SA8-BG25	
		∨	N/o		3SA8-BG41	
		∨	N/o	N/c	3SA8-BG45	
		∇	N/o		3SA8-BG61	
		∇	N/o	N/c	3SA8-BG65	
	3 positions	∨	2N/o		3SA8-BG33	
		∨	2N/o		3SA8-BG53	
		∨	2N/o		3SA8-BG03	
		∇	2N/o		3SA8-BG73	

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Pushbutton Switch
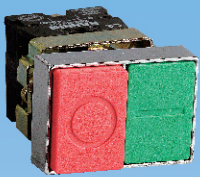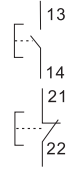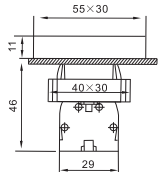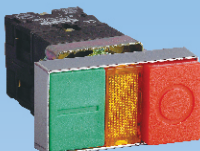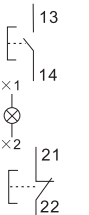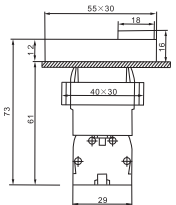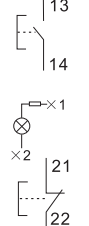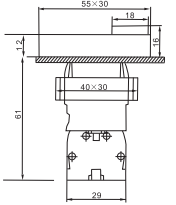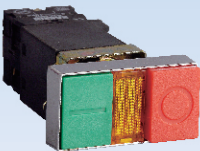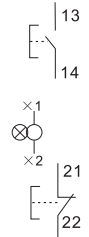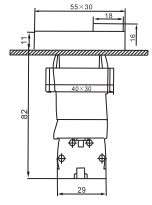
◆ **Pilot light with BA 9s base**

Description	Supply Voltage	Circuit	Color	Type	Overall dimensions
Direct bulb including BA9a base fitting	≤380V 220/240V 50/60Hz		○	3SA8-BV61	
			🟢	3SA8-BV63	
			🔴	3SA8-BV64	
			🟡	3SA8-BV65	
			🔵	3SA8-BV66	
Via integral resistor BA 9s,LED24V bulb supplied	220/240V 50/60Hz		○	3SA8-BV71	
			🟢	3SA8-BV73	
			🔴	3SA8-BV74	
			🟡	3SA8-BV75	
			🔵	3SA8-BV76	
Via integral transformer 1.2VA BA 9s,6V bulb supplied	110V/50Hz 110-120V/60Hz		○	3SA8-BV31	
			🟢	3SA8-BV33	
			🔴	3SA8-BV34	
			🟡	3SA8-BV35	
			🔵	3SA8-BV36	
Via integral transformer 1.2VA BA 9s,6V bulb supplied	220V/50Hz		○	3SA8-BV41	
			🟢	3SA8-BV43	
			🔴	3SA8-BV44	
			🟡	3SA8-BV45	
			🔵	3SA8-BV46	
Via integral transformer 1.2VA BA 9s,6V bulb supplied	240V/50Hz		○	3SA8-BV941	
			🟢	3SA8-BV943	
			🔴	3SA8-BV944	
			🟡	3SA8-BV945	
			🔵	3SA8-BV946	
Via integral transformer 1.2VA BA 9s,6V bulb supplied	380V/50Hz 415V/50Hz		🟢	3SA8-BV53	
			🔴	3SA8-BV54	
			🟡	3SA8-BV55	
			🟢	3SA8-BV933	
			🔴	3SA8-BV934	
			🟡	3SA8-BV935	

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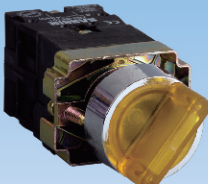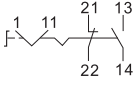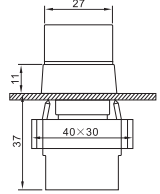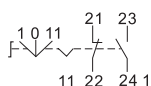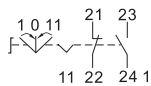
Pushbutton Switch

◆ Double pushbuttons

Description	Circuit	Color	Contact type			Type	Overall dimensions
Without pilot light 1 flush green pushbutton 1 projecting red pushbutton	13 14 21 22	▮▮	N/O	N/C	IP40	3SA8-BL8325	55×30 11 46 40×30 29
		▮▮	N/O	N/C	IP65	3SA8-BL9325	
		▮▮	N/O	N/C	IP40	3SA8-BL8425	
		▮▮	N/O	N/C	IP65	3SA8-BL9425	
Without pilot light 1 flush green pushbutton 1 pilot light with Yellow lens Direct supply≤380∨ 1 projecting red pushbutton	13 14 ×1 ×2 21 22	▮▮	N/O	N/C		3SA8-BW8365	55×30 18 12 16 73 61 40×30 29
		▮▮	N/O	N/C		3SA8-BW8465	
1 flush green pushbutton 1 pilot light with Yellow lens 220/250V supply direct through resistor BA 9s,130V bold including 1 projecting red pushbutton	13 14 ×1 ×2 21 22	▮▮	N/O	N/C		3SA8-BW8375	55×30 18 12 16 61 40×30 29
		▮▮	N/O	N/C		3SA8-BW8475	
1 flush green pushbutton 1 pilot light with Yellow lens 1.2VA-220V direct supply via integral transformer BA 9s 6V,bulb including 1 projecting red pushbutton	13 14 ×1 ×2 21 22	▮▮	N/O	N/C		3SA8-BW8345	55×30 18 11 16 82 40×30 29
		▮▮	N/O	N/C		3SA8-BW8445	
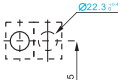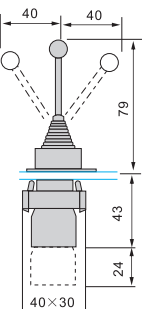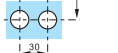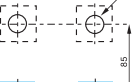
◆ Selector switches with pilot light

Description	Circuit	Contact type		Type	Overall dimensions
2 positions stay put	1 11 21 13 22 14	N/O	N/C	3SA8-BK2365	27 11 37 40×30
		N/O	N/C	3SA8-BK2465	
		N/O	N/C	3SA8-BK2565	
		N/O	N/C	3SA8-BK2665	
		N/O	N/C	3SA8-BK2765	
3 positions stay put	1 0 11 21 23 11 22 24 1	N/O	N/C	3SA8-BK3365	
		N/O	N/C	3SA8-BK3465	
		N/O	N/C	3SA8-BK3565	
		N/O	N/C	3SA8-BK3665	
		N/O	N/C	3SA8-BK3765	
	1 0 11 21 23 11 22 24 1	N/O	N/C	3SA8-BK5365	
		N/O	N/C	3SA8-BK5465	
		N/O	N/C	3SA8-BK5565	
		N/O	N/C	3SA8-BK5665	
		N/O	N/C	3SA8-BK5765	

Pushbutton Switch
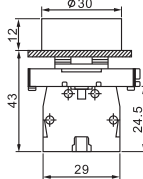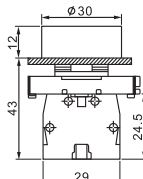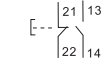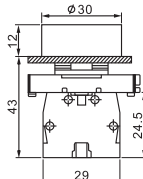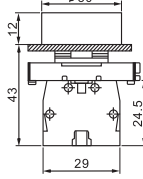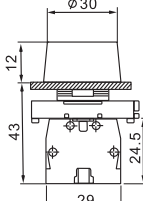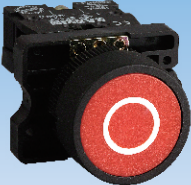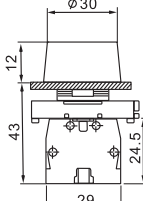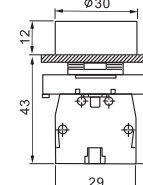
◆ Selector switches

Description	Mounting hole diagram of Selector switch	Contact type		Type	Overall dimesions

Mounting panel thickness：1~6mm

2 positions

Ⓐ◄─○─►Ⓑ

Ø22.3

85

30

Locked	2N/O	2N/C		3SXD2PA12	
spring reset	2N/O	2N/C		3SXD2PA22	

4 positions

Ⓓ
Ⓐ─┼─Ⓑ
Ⓒ

Ø22.3

85

85

Locked	4N/O	4N/C		3SXD2PA14	
spring reset	4N/O	4N/C		3SXD2PA24	

40 40
79
43
24
40×30
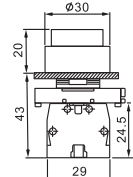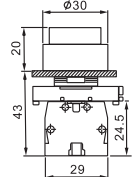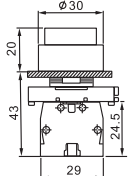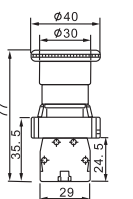
Description	Voltage	Position	Color	Contact type		Type
spring return			⬤ black	N/O		3SA28-EA21
			🟢 green	N/O		3SA28-EA31
			🔴 red		N/C	3SA28-EA41
			⬤ black	N/O	N/C	3SA28-EA25
			🟢 green			3SA28-EA35
			🔴 red			3SA28-EA45
			⬤ black	N/O		3SA28-EH21
			🟢 green			3SA28-EH31
			🔴 red	N/O	N/C	3SA28-EH25
			🟢 green			3SA28-EH35
standard handle		2 position ╲╱		N/O		
						3SA28-ED21
		2 position ╲╱		N/O	N/C	
						3SA28-ED25
		2 position ╲╱		2N/O		
						3SA28-ED33
For use with incandescent bulb included Ba9s base fitting	≤230		⚪			3SA28-EV61
			🟢			3SA28-EV63
			🔴			3SA28-EV64
			🟡			3SA28-EV65
			🔵			3SA28-EV66
BA9S			Clear			3SA28-EV67
			⚪			3SA28-EV41
			🟢			3SA28-EV43
BA9S	～230		🔴			3SA28-EV44
			🟡			3SA28-EV45
			🔵			3SA28-EV46
			Clear			3SA28-EV47

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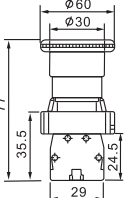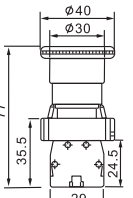
Pushbutton Switch

Description	Circuit	Color	Contact Type		Type	Overall dimensions
Even button spring return	13 / 14	○ (white)	N/O		3SA5-BA11	Ø30, 12, 43, 24.5, 29
		● (black)	N/O		3SA5-BA21	
		● (green)	N/O		3SA5-BA31	
		● (yellow)	N/O		3SA5-BA51	
		● (blue)	N/O		3SA5-BA61	
Even button spring return	21 / 22	● (red)		N/C	3SA5-BA42	Ø30, 12, 43, 24.5, 29
Even button spring return	21 13 / 22 14	○ (white)	N/O	N/C	3SA5-BA15	Ø30, 12, 43, 24.5, 29
		● (black)	N/O	N/C	3SA5-BA25	
		● (green)	N/O	N/C	3SA5-BA35	
		● (yellow)	N/O	N/C	3SA5-BA55	
		● (blue)	N/O	N/C	3SA5-BA65	
	21 13 / 22 14	● (red)	N/O	N/C	3SA5-BA45	
With protection spring return	13 / 14	● (black)	N/O		3SA5-BU21	Ø30, 12, 43, 24.5, 29
		● (green)	N/O		3SA5-BU31	
		● (yellow)	N/O		3SA5-BU51	
		● (blue)	N/O		3SA5-BU61	
	21 / 22	● (red)		N/C	3SA5-BU42	
Even button (transparent silica gel cover) unmarked Ip65	13 / 14	○ (white)	N/O		3SA5-BP11	Ø30, 12, 43, 24.5, 29
		● (black)	N/O		3SA5-BP21	
		● (green)	N/O		3SA5-BP31	
		● (yellow)	N/O		3SA5-BP51	
		● (blue)	N/O		3SA5-BP61	
	21 / 22	● (red)		N/C	3SA5-BP42	

Description	Color	Contact Type		Type	Overall dimensions
	I (green)	N/O		3SA5-BA3311	Ø30, 12, 43, 24.5, 29
	II (green)	N/O		3SA5-BA3361	
	↑ (green)	N/O		3SA5-BA3341	
	↑ (black)	N/O		3SA5-BA3351	
	○ (red)		N/C	3SA5-BA4322	
	STOP (red)		N/C	3SA5-BA4342	
	START (green)	N/O		3SA5-BA5331	
	START (black)	N/O		3SA5-BA5321	
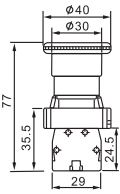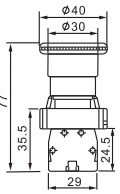
Pushbutton Switch

Description	Color		Contact Type		Type	Overall dimensions
	●		N/O		3SA5-BL21	Ø30, 20, 43, 24.5, 29
	●		N/O		3SA5-BL31	
	●		N/O		3SA5-BL51	
	●		N/O		3SA5-BL61	
	●			N/C	3SA5-BL42	
	Ⅰ		N/O		3SA5-BL3311	Ø30, 20, 43, 24.5, 29
	Ⅱ		N/O		3SA5-BL3361	
	⬆ ⬇		N/O		3SA5-BL3351	Ø30, 20, 43, 24.5, 29
	⬆ ⬇		N/O		3SA5-BL3341	
	⊙			N/C	3SA5-BL4322	
	STOP			N/C	3SA5-BL4342	
	● φ40		N/O		3SA5-BC21	Ø40, Ø30, 77, 35.5, 24.5, 29
	● φ40		N/O		3SA5-BC31	
	● φ30			N/C	3SA5-BC42	
	● φ40			N/C	3SA5-BC42	

◆ Pushbutton spring return
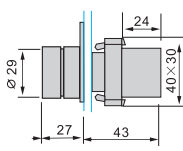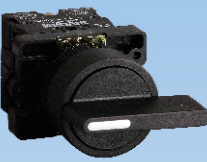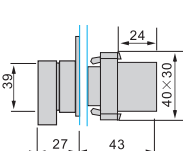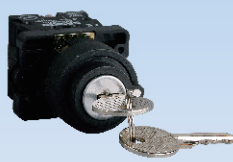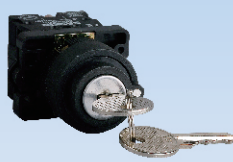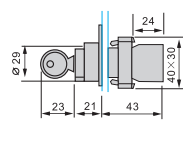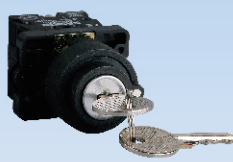
Description	Color		Contact Type		Type	Overall dimensions
Mushroom head	● φ60		N/O		3SA5-BR21	Ø60, Ø30, 77, 35.5, 24.5, 29
	● φ60		N/O		3SA5-BR31	
	● φ60			N/C	3SA5-BR42	
Turn to release	● φ30			N/C	3SA5-BS442	Ø40, Ø30, 77, 35.5, 24.5, 29
	● φ40			N/C	3SA5-BS542	
	● φ60			N/C	3SA5-BS642	

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Pushbutton Switch

Description		Color	Contact Type	Type	Overall dimensions
Push-pull Red	φ40	●	N/C	3SA5-BT42	
	φ60	●	N/C	3SA5-BX42	
Turn to release Red release (Key n° 445)	φ30	●	N/C	3SA5-BS742	
	φ40	●	N/C	3SA5-BS142	
	φ60	●	N/C	3SA5-BS242	

◆ **Selector Switches**

Description	Position	Contact Type	Type	Overall dimensions
2 positions		N/O	3SA5-BD21	
		N/O N/C	3SA5-BD25	
		N/O	3SA5-BD41	
		N/O N/C	3SA5-BD45	
3 positions		2N/O	3SA5-BD33	
		2N/O	3SA5-BD53	
		2N/O	3SA5-BD73	
		2N/O	3SA5-BD83	
2 positions		N/O	3SA5-BJ21	
		N/O N/C	3SA5-BJ25	
		N/O	3SA5-BJ41	
		N/O N/C	3SA5-BJ45	
3 positions		2N/O	3SA5-BJ33	
		2N/O	3SA5-BJ53	
		2N/O	3SA5-BJ73	
		2N/O	3SA5-BJ83	
2 positions		N/o	3SA5-BG21	
		N/o N/c	3SA5-BG25	
		N/o	3SA5-BG41	
		N/o N/c	3SA5-BG45	
		N/o	3SA5-BG61	
		N/o N/c	3SA5-BG65	
3 positions		2N/o	3SA5-BG33	
		2N/o	3SA5-BG53	
		2N/o	3SA5-BG03	
		2N/o	3SA5-BG73	

Description: ∨ Locked   ▽ spring reset   keyout

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Pushbutton Switch

◆ Double pushbuttons
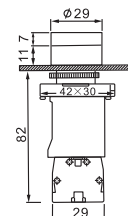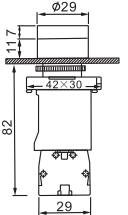
	Description	Degree of protection	Color	Contact type		Type	Overall dimensions
	1 flush green pushbutton 1 flush red pushbutton Unmarked	IP40		N/O	N/C	3SA5-BL8325	
	Without pilot light 1 flush green pushbutton 1 flush red pushbutton Unmarked	IP40		N/O	N/C	3SA5-BL8425	
	Without pilot light 1 flush green push button 1 flush red push button(transparent silica gel cover) Unmarked Ip65	IP65		N/O	N/C	3SA5-BL9325	
	Without pilot light 1 flush green push button 1 flush red push button(transparnt silica gel cover) Unmarked Ip65	IP65		N/O	N/C	3SA5-BL9425	

◆ Pushbutton illuminated

	Description	Supply Voltage	Color	Contact type		Type	Overall dimensions
	Direct bulb supplied	220-240V	○			3SA5-BW3161	
			● (green)	N/O		3SA5-BW3361	
			● (yellow)			3SA5-BW3561	
			● (blue)			3SA5-BW3661	
			● (red)		N/C	3SA5-BW3462	
	Via integral resistor BA9s,LED24V bulb supplied	220V 25OV	○	N/O		3SA5-BW3171	
			● (green)			3SA5-BW3371	
			● (yellow)			3SA5-BW3571	
			● (blue)			3SA5-BW3671	
			● (red)		N/C	3SA5-BW3472	
	Via integral transformer 1.2VA BA9s,6V bulb supplied	110V/50HZ 110-120V 60HZ	○	N/O		3SA5-BW3131	
			● (green)			3SA5-BW3331	
			● (yellow)			3SA5-BW3531	
			● (blue)			3SA5-BW3631	
			● (red)		N/C	3SA5-BW3432	

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Pushbutton Switch

Description	Supply Voltage	Color	Contact type		Type	Overall dimensions
Via integral transformer 1.2VA BA9s,6V bulb supplied	220V/50HZ	○	N/O		3SA5-BW3141	
		● (green)			3SA5-BW3341	
		● (yellow)			3SA5-BW3541	
		● (red)		N/C	3SA5-BW3442	
		● (red)			3SA5-BW34942	
	240V/50HZ	○			3SA5-BW31941	
		● (green)	N/O		3SA5-BW33941	
		● (yellow)			3SA5-BW35941	
Via integral transformer 1.2VA BA9s,6V bulb supplied	380V/50HZ	○	N/O		3SA5-BW3151	
		● (green)			3SA5-BW3351	
		● (yellow)			3SA5-BW3551	
		● (red)		N/C	3SA5-BW3452	
		● (red)			3SA5-BW34932	
	415V/50HZ	○			3SA5-BW31931	
		● (green)	N/O		3SA5-BW33931	
		● (yellow)			3SA5-BW35931	
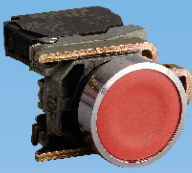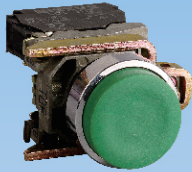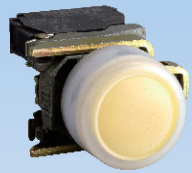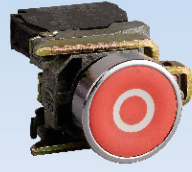
◆ **Pilot light**

Description	voitage	Circuit	Color	Type	Overall dimensions
Direct bulb included BA9s base fitting	220/240V 50/60HZ	X1 ⊗ X2	○	3SA5-BV61	
			● (green)	3SA5-BV63	
			● (red)	3SA5-BV64	
			● (yellow)	3SA5-BV65	
			● (blue)	3SA5-BV66	
Via integral transformer 1.2VA BA9s,6V bulb supplied	110V/50HZ 110-120V 60HZ	X1 ⊗ X2	○	3SA5-BV31	
			● (green)	3SA5-BV33	
			● (red)	3SA5-BV34	
			● (yellow)	3SA5-BV35	
			● (blue)	3SA5-BV36	
Via integral transformer 1.2VA BA9s,6V bulb supplied	240V/50HZ	X1 ⊗ X2	○	3SA5-BV941	
			● (green)	3SA5-BV943	
			● (red)	3SA5-BV944	
			● (yellow)	3SA5-BV945	
			● (blue)	3SA5-BV946	
Via integral resistor LED24V Ba9s	220/240V 50/60HZ	X1 ⊗ X2	○	3SA5-BV71	
			● (green)	3SA5-BV73	
			● (red)	3SA5-BV74	
			● (yellow)	3SA5-BV75	
			● (blue)	3SA5-BV76	
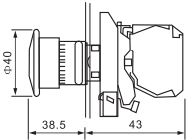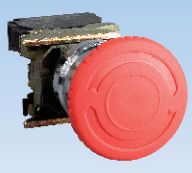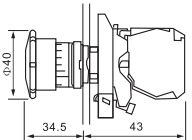
Pushbutton Switch

◆ Pushbutton spring return with chromium plated metal bezel
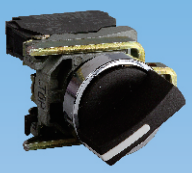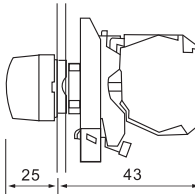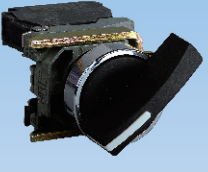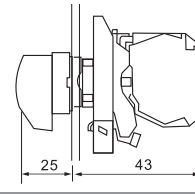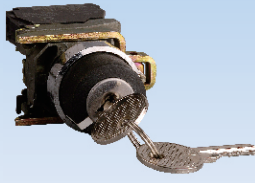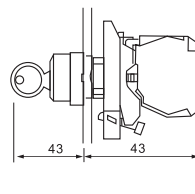
Description	Color	Contact type		Type	Overall dimensions
Flush button	●	N/O		3SA18-BA21	
	●	N/O		3SA18-BA31	
	●	N/O		3SA18-BA42	
	●	N/O		3SA18-BA51	
	●	N/O		3SA18-BA61	
	●	N/O	N/C	3SA18-BA25	
	●	N/O	N/C	3SA18-BA35	
	●	N/O	N/C	3SA18-BA45	
Projecting button	●	N/O		3SA18-BL21	
	●	N/O		3SA18-BL31	
	●		N/C	3SA18-BL42	
	●	N/O		3SA18-BL51	
	●	N/O		3SA18-BL61	
Booted flush degree of protection IP66	●	N/O		3SA18-BP21	
	●	N/O		3SA18-BP31	
	●		N/C	3SA18-BP42	
	●	N/O		3SA18-BP51	
	●	N/O		3SA18-BP61	
Flush, with marking	(I)	N/O		3SA18-BA3311	
	(↑)	N/O		3SA18-BA3341	
	(↑)	N/O		3SA18-BA3351	
	(O)		N/C	3SA18-BA4322	

◆ Pushbuttons

Pushbutton spring return
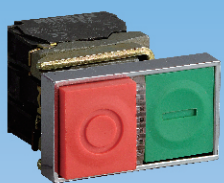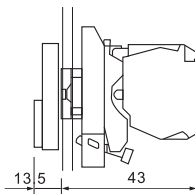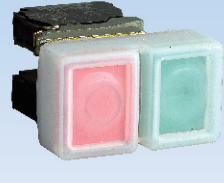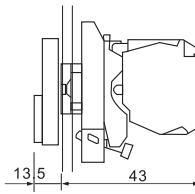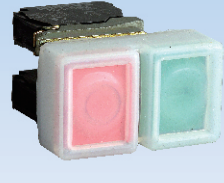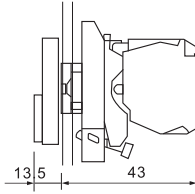
Description	Color	Contact type		Type	Overall dimensions
Spring return Bc Φ40 BR Φ60	●	N/O		3SA18-BC21	
	●	N/O		3SA18-BC31	
	●		N/C	3SA18-BC42	
	●	N/O		3SA18-BC51	Φ40
	●	N/O		3SA18-BR21	
	●	N/O		3SA18-BR31	38.5 43
	●		N/C	3SA18-BR42	
	●	N/O		3SA18-BR51	
Mushroom head self-lock	●	N/C Φ30		3SA18-BS442	Φ40
	●	N/C Φ40		3SA18-BS542	
	●	N/C Φ60		3SA18-BS642	34.5 43

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Pushbutton Switch

◆ Selector switches & key switches

Description	Color	Contact type		Type	Overall dimensions

Standard handle black

Description	Contact type		Type	
2-position locked	N/O		3SA18-BD21	
2-position locked	N/O	N/C	3SA18-BD25	
3-position locked	2N/O		3SA18-BD33	
2-position reset	N/O		3SA18-BD41	
2-position reset	N/O	N/C	3SA18-BD45	
3-position reset	2N/O		3SA18-BD53	25 43

long handle, black

Description	Contact type		Type	
2-position locked	N/O		3SA18-BJ21	
2-position locked	N/O	N/C	3SA18-BJ25	
3-position locked	2N/O		3SA18-BJ33	
2-position reset	N/O		3SA18-BJ41	
2-position reset	N/O	N/C	3SA18-BJ45	
3-position reset	2N/O		3SA18-BJ53	25 43

Key switch

Description	Contact type		Type	
2-position locked	N/O		3SA18-BG21	
2-position locked	N/O	N/C	3SA18-BG25	
3-position locked	2N/O		3SA18-BG33	
2-position reset	N/O		3SA18-BG41	
2-position reset	N/O		3SA18-BG61	
3-position reset	2N/O		3SA18-BG73	43 43

Description: Locked   spring reset   keyout
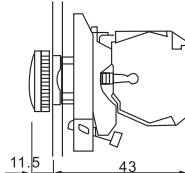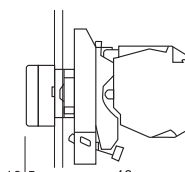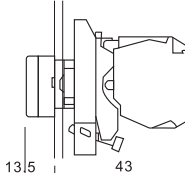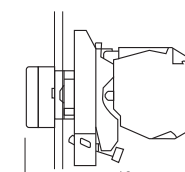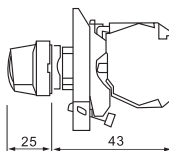
◆ Double pushbutton

Description	Color	Contact type		Type	Overall dimensions

Description	Color	Contact type		Type	
Double end button		N/O	N/C	3SA18-BL8325	
Flush flush		N/O	N/C	3SA18-BL8312	
		N/O	N/C	3SA18-BL8425	
Projecting flush		N/O	N/C	3SA18-BL8412	13 5 43

Description	Color	Contact type		Type	
Double end button					
Flush＋flush		N/O	N/C	3SA18-BW8365	
Projecting flush		N/O	N/C	3SA18-BW8465	
LED lamp socket LED					13 5 43

Description	Color	Contact type		Type	
flush Projecting					
Projecting flush		N/O	N/C	3SA18-BL9312	
		N/O	N/C	3SA18-BL9434	
Degree of protection IP66					13 5 43

Pushbutton Switch

◆ **Pilot light, illuminated pushbutton, selector switch**

Description	Supply Voltage	Color	Contact type		Type	Overall dimensions

Description	Supply Voltage	Color	Contact type		Type	Overall dimensions
Pilot light BA9s Lamp socket LED BA9s bulb and neon lamp	≤250V	🟢			3SA18-BV63	11.5 / 43
		🔴			3SA18-BV64	
		🟡			3SA18-BV65	
		🟢			3SA18-BV66	
		Clear			3SA18-BV67	
Pilot light Integral LED	24V				3SA18-BVB□	13.5 / 43
	~48…120V				3SA18-BVG□	
	~230…240V				3SA18-BVM□	
Illuminated pushbutton BA9S bulb and neon lamp	≤250V	🟢	N/O	N/C	3SA18-BW3365	13.5 / 43
		🔴	N/O	N/C	3SA18-BW3465	
		🟡	N/O	N/C	3SA18-BW3565	
		🔵	N/O	N/C	3SA18-BW3665	
		Clear	N/O	N/C	3SA18-BW3765	
Illuminated pushbutton BA9s Lamp socket LED	24V ≤250V		N/O	N/C	3SA18-BW3□B5	13.5 / 43
	~48…120V		N/O	N/C	3SA18-BW3□G5	
	~230…240V		N/O	N/C	3SA18-BW3□M5	
Selector switch, illuminated, standard handle	24V	🟢			3SA18-BK133B5	25 / 43
		🔴			3SA18-BK134B5	
		🟡			3SA18-BK135B5	
	~48…120V	🟢			3SA18-BK133G5	
		🔴			3SA18-BK134G5	
		🟡			3SA18-BK135G5	
	~230…240V	🟢			3SA18-BK133M5	
		🔴			3SA18-BK134M5	
		🟡			3SA18-BK135M5	

AD22C series indicator lamps

Type	Color	Voltage	Shape	Electric principle
AD22C-Φ6	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ8	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ10	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ12	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ14	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ16	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22C-Φ9	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED
AD22B-Φ8	● Red ● Green ● Yellow ○ White ● Blue	6～220V		LED

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AD22 LED series indicator lamps

◆ Environment condition

(1) Ambient temperature:-25℃ ±55℃
(2) Relative humidity:98%
(3) Working under vibration frequency 2 -80Hz, acceleration at 0.7g
(4) Pollution: class Ⅲ installation:type Ⅲ
(5) "TH" mark can be used in wet and heat conditions

◆ Main Specifications

(1) pressure: 2.5kV,1min
(2) insulation resistance ≥2MΩ
(3) AC indicative light voltage ±20%
(4) endurance≥30000h
(5) brightness≥60cd/m2
(6) leakage index:CT1≥100
(7) top protection class IP65, special order IP67
(8) frequency: AC 50-60Hz

◆ Diagram

AC,DC indicator (DC,AC 6V-DC,AC 220V)

R1 — X1
R2 — X2
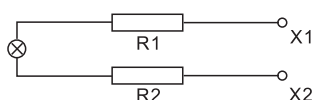
AC indicator (AC220V-AC380V)

C1 — X1
R2 — X2
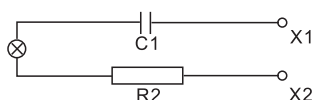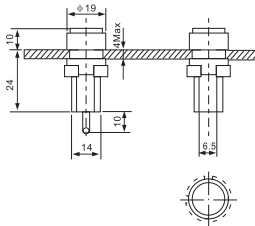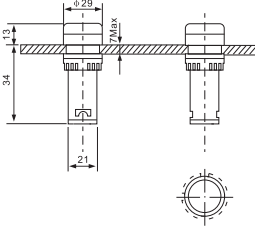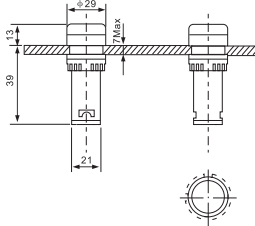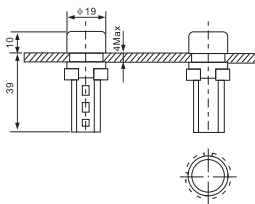
Double colour indicator (DC AC 110- DC , AC 220V)

R1 — X1
— X0
R2 — X2
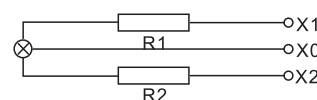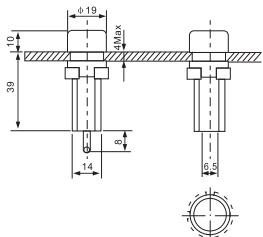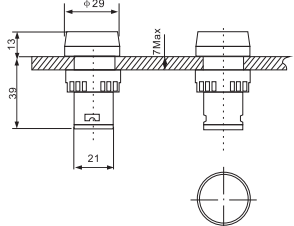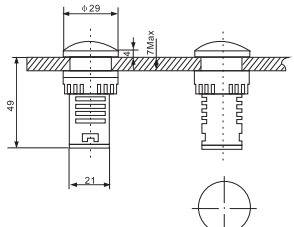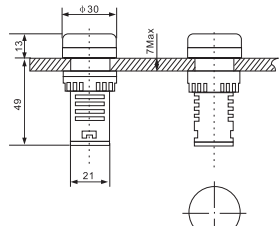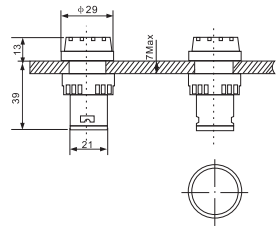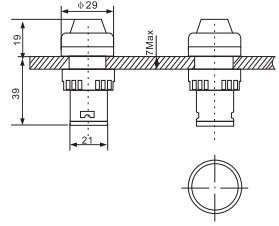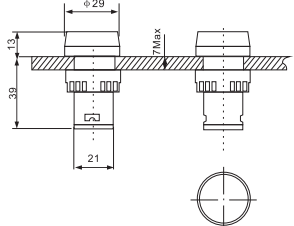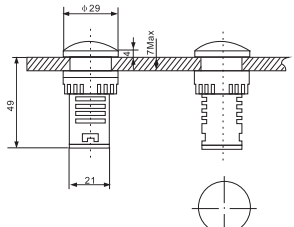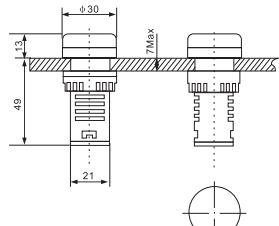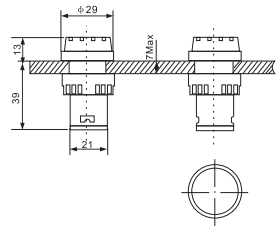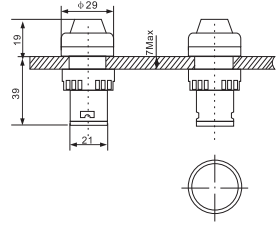
Note: pay attention to ratiation when heat is too
       high for DC 110V, 220V, 380V;

Note: connecting X0,X1, lighting green;
        Connecting X0   X2,lighting red.

Type	Voltage	Color	Overall dimensions
AD22-16AS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-16DCS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-16DC	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-16BC	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	

Φ16 indicator lamp

Φ16 indicator lamp

Φ16 Indicator lamp

Φ16BC indicator lamp

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AD22 LED series indicator lamps

Φ16 indicator lamp

Φ22/22BS indicator lamp

Φ22/22CS indicator lamp

Φ22/22DS indicator lamp

Φ22/22ES indicator lamp

Φ22/22HS indicator lamp

Type	Voltage	Color	Overall dimensions
AD22-16B	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22BS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22CS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22DS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22/22ES	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22/22HS	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	

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AD22 LED series indicator lamps

Φ22/22B indicator lamp
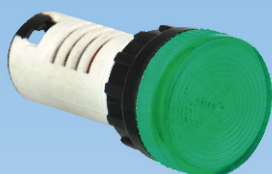
Φ22/22C indicator lamp

Φ22/22D indicator lamp

Φ22/22E indicator lamp

Type	Voltage	Color	Overall dimensions
AD22-22B	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC220V 29-FD380V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22C	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC220V 29-FD380V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22D	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
AD22-22E	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	
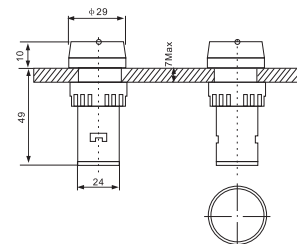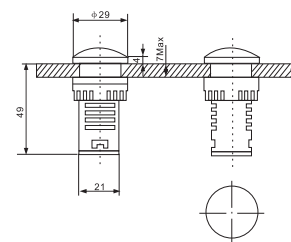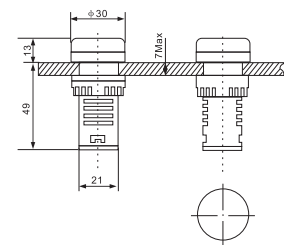
Double color signal lamp

Φ22/22Drg round double-color lamp
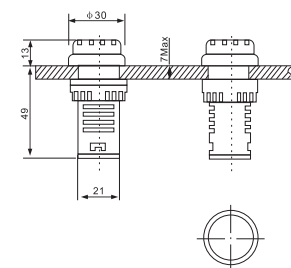
Type	Voltage	Color	Overall dimensions
AD22-22Drg	23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	● Red ● Green ● Red ● Yellow	
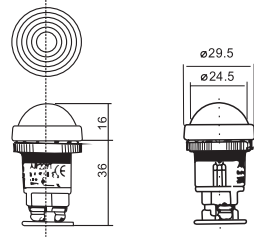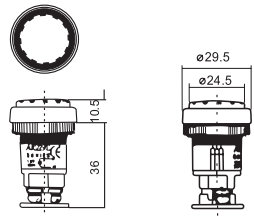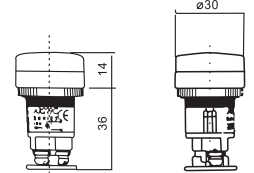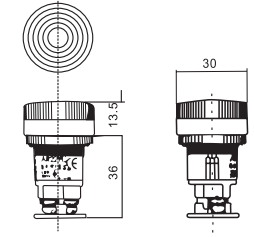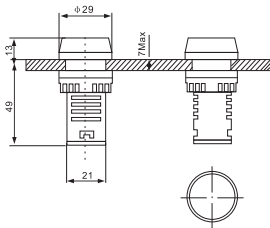
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AD22 LED series indicator lamps

Type	Voltage	Color	Overall dimensions
LED Integrated AR229C☐☐	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	ø29.5 ø24.5 16 36
LED Integrated AR229T☐☐	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	ø29.5 ø24.5 10.5 36
LED Integrated AR229E☐☐	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	ø30 14 36
LED Integrated AR229H☐☐	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ○ White ● Blue	30 13.5 36

◆ Buzzer

Type	Voltage	Color	Overall dimensions
Buzzer AD22-22M/K	23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Black	φ29 7Max 13 49 21
Flash buzzer AD22-22M/r	23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red	The buzzer's voice interrupted flashlight volume is 10cm/80Decibel , electric current is 15～20mA

Pushbutton & Indicator

Type and meaning

Button

3SA 16 – ① ② Ⓓ Ⓛ / ③ ④

- Voltage code
- Color of button
- Alternative belt
- Button with lamp
- Head apperance styles
- Number of poles
- Serial number designed
- Special expression of company's product type

Signal lamp

3SA 16- ☐ XD

- Signal lamp
- Head appearance styles(see list 1)
- Serial number designed
- Special expression of company's product type
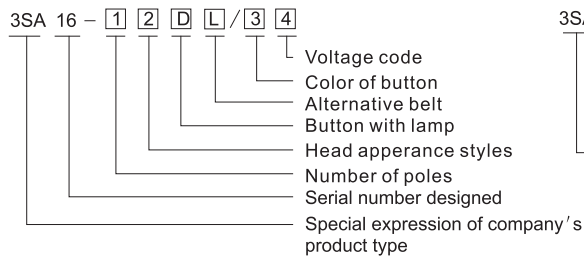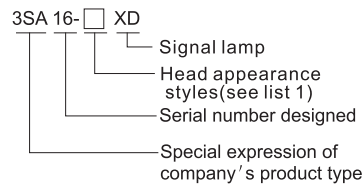
Using condition

(1) Air temperature -25℃ ~ + 50℃
(2) Relative humidity: ≤85%
(3) Altitude height: ≤ 2,000m
(4) Pollution grade: 3
(5) Installation type: Ⅲ
(6) Protection grade:IP40 /IP55
(7) Environmental condition: no medium causing explosion, gas or dust of electric conduction

List 1:

Letter	Meaning	Letter	Meaning	Letter	Meaning
AXD	Round indicator	AL	Round flat button of alternative type	XA	Round revolving handle button
FXD	Square indicator	FL	Square button of alternative type	XF	Square revolving handle button
CFXD	Rectangular indicator	CFL	Rectangular button of alternative type	XCF	Rectangular revolving handle button
MXD	Mushroom indicator	A	Round flat button(Instant moving type)	L	Alternative belt(In the type of self-lock and set free)
AD	Round light button	F	Square button (Instant moving type)	ML	Mushroom button
FD	Square light button	CF	Rectangular button(Instant moving type)	ADL	Round belt light button alternative
CFD	Rectangular light button	M	Mushroom button(Instant moving type)	FDL	Square belt light button alternative
MD	Mushroom light button	ZS	Emergency button(alternative moving type)	CFDL	Rectangular belt light button alternative
YA	Round key button	YF	Square key button	YCF	Rectangular key button
FG	With protecting box				

Size
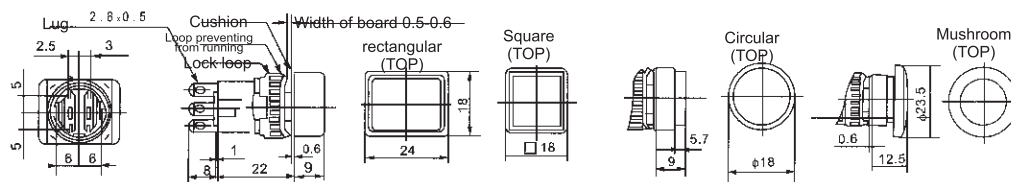
Terminals wiring diagran
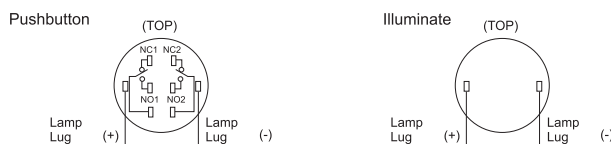
SDL16 Selector switch

It is possible to change position of operating system.
It is possible to change position of operating system by running front cover and locker. Every other 45°, front cover can be locked to avoid it automatically running when it is installed on the plate.
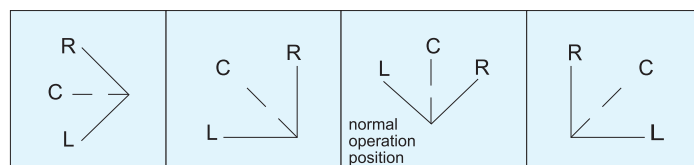
Change position of operating system.
Get rid of lock before pulling out, run front cover, push it in every other 45°and then lock front cover.

Contact type work

Position	Contact type	Working type		
		Left	Middle	Right
90°2 Position	Single-pole double throws	NO NC C		NO NC C
	Double-pole double throws	Left Contact type / Right Contact type NO NC NO NC C C		Left Contact type / Right Contact type NO NC NO NC C C
45°3 Position	Double-pole double throws	Left Contact type / Right Contact type NO NC NO NC C C	Left Contact type / Right Contact type NO NC NO NC C C	Left Contact type / Right Contact type NO NC NO NC C C

Note: Running "connection point" working drawing is accordant with one with key.
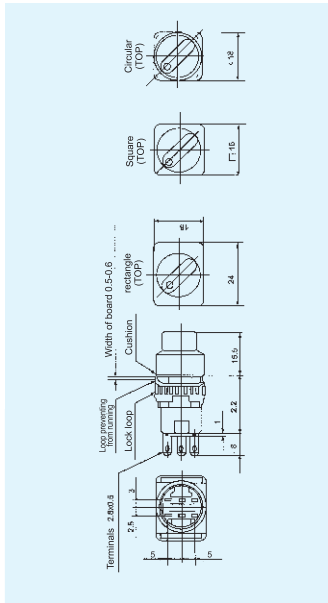
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Pushbutton & Indicator

Size

Position		Contact type	Reference	Remark
90°2 Position	L　R	1NO+1NC	3SA16-11XA-2	
		2NO+2NC	3SA16-22XA-2	
45°3 Position	L　C　R	2NO+2NC	3SA16-22XA-3	
90°2 Position	L　R	1NO+1NC	3SA16-11XF-2	-2 means 2 positions
		2NO+2NC	3SA16-22XF-2	-3 means 3 positions
45°3 Position	L　C　R	2NO+2NC	3SA16-22XF-3	
90°2 Position	L　R	1NO+1NC	3SA16-11XCF-2	
		2NO+2NC	3SA16-22XCF-2	
45°3 Position	L　C　R	2NO+2NC	3SA16-22XCF-3	

Size
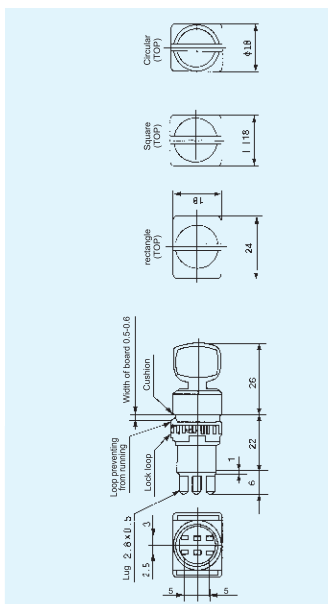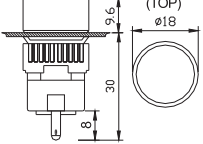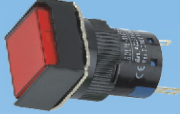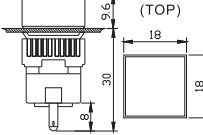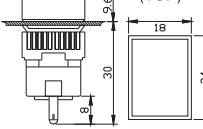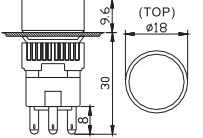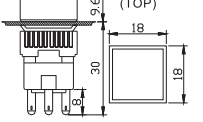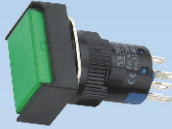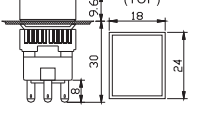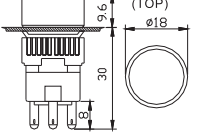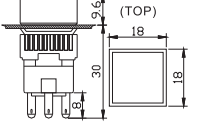
Position		Contact type	Reference	Remark
90°2 Position	L　R	1NO+1NC	3SA16-11YA-2	
		2NO+2NC	3SA16-22YA-2	
45°3 Position	L　C　R	2NO+2NC	3SA16-22YA-3	
90°2 Position	L　R	1NO+1NC	3SA16-11YF-2	-2 means 2 positions
		2NO+2NC	3SA16-22YF-2	-3 means 3 positions
45°3 Position	L　C　R	2NO+2NC	3SA16-22YF-3	
90°2 Position	L　R	1NO+1NC	3SA16-11YCF-2	
		2NO+2NC	3SA16-22YCF-2	
45°3 Position	L　C　R	2NO+2NC	3SA16-22YCF-3	

Size
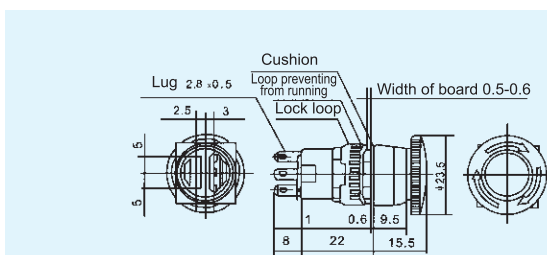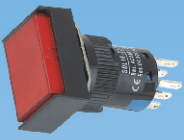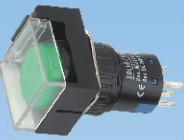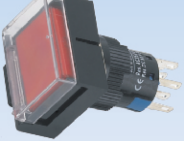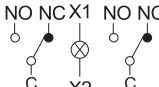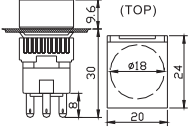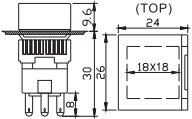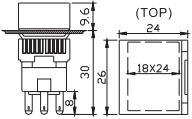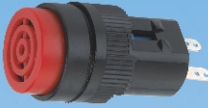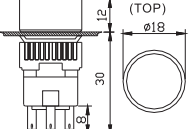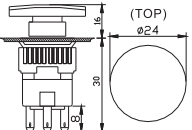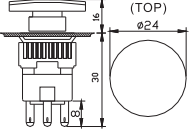
Working type	Contact type	Reference	Remark
Press lock to replace	1NO+1NC	3SA16-11ZS	Red
	2NO+2NC	3SA16-22ZS	

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Pushbutton & Indicator

Description	Contact	Circuit	Color	Type	Contour
Installed light circular	LED 24V/AC/DC Neon 220V/AC	X1 ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-AXD	(TOP) ø18 9.6 30 8
Installed light square	LED 24V/AC/DC Neon 220V/AC	X1 ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-FXD	(TOP) 18 9.6 30 8 18
Installed light rectangular	LED 24V/AC/DC Neon 220V/AC	X1 ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-CFXD	(TOP) 18 9.6 30 8 24
Pushbutton signal pole LED 24V/AC/DC Neon 220V/AC	N/O+N/C	X1 NO NC ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11AD 3SA16-11ADL	(TOP) ø18 9.6 30 8
Pushbutton signal pole LED 24V/AC/DC Neon 220V/AC	NO+NC	X1 NO NC ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11FD 3SA16-11FDL	(TOP) 18 9.6 30 8 18
Pushbutton double pole LED 24V/AC/DC Neon 220V/AC	NO+NC	X1 NO NC ⊗ X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11CFD 3SA16-11CFDL	(TOP) 18 9.6 30 8 24
Installed light circular double pole LED 24V/AC/DC Neon 220V/AC	2NO+2NC	NO NC X1 NO NC C ⊗ C X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-22AD 3SA16-22ADL	(TOP) ø18 9.6 30 8
Installed light square double pole LED 24V/AC/DC Neon 220V/AC	2NO+2NC	NO NC X1 NO NC C ⊗ C X2	● Red ● Green ● Yellow ○ White ● Blue	3SA16-22FD 3SA16-22FDL	(TOP) 18 9.6 30 8 18

3SA16-AXD

3SA16-FXD

3SA16-CFXD

3SA16-11AD

3SA16-11FD

3SA16-11CFD

3SA16-22AD

3SA16-22FD

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Pushbutton & Indicator

	Description	Contact	Circuit	Color	Type	Contour
3SA16-22CFD	Installed light rectangular double pole LED 24V/AC/DC Neon 220V/AC	2NO+2NC	NO NC X1 NO NC C X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-22CFD 3SA16-22CFDL	(TOP)
3SA16-11ADFG	Installed light circular single pole LED 24V/AC/DC Neon 220V/AC with protection cover Ip40	NO+NC	X1 NO NC X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11ADFG 3SA16-11ADFGL	(TOP)
3SA16-11FDFG	Installed light square single pole LED 24V/AC/DC Neon 220V/AC with protection cover Ip40	NO+NC	X1 NO NC X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11FDFG 3SA16-11FDFGL	(TOP)
3SA16-11CFDFG	Installed light rectangular single pole LED 24V/AC/DC Neon 220V/AC with protection cover Ip40	NO+NC	X1 NO NC X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11CFDFG 3SA16-11CFDFGL	(TOP)

	Description	Contact	Circuit	Color	Type	Contour
3SA16-MF	Indicator Buzzer		X1 X2	● Red ● Black	3SA16-MF	(TOP)
3SA16-11MD	Installed light Mushroom button signal pole LED 24V/AC/DC Neon 220V/AC	NO+NC	X1 NO NC X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11MD 3SA16-11MDL	(TOP)
3SA16-22MD	Installed light Mushroom button signal pole LED 24V/AC/DC Neon 220V/AC double pole	2NO+2NC	NO NC X1 NO NC C X2 C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-22MD 3SA16-22MDL	(TOP)

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Pushbutton & Indicator

Description	Contact	Circuit	Color	Type	Contour
Mushroom button signal pole circular	NO+NC	NO NC / C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11M 3SA16-11ML 3SA16-22M 3SA16-22ML	(TOP) Ø 23.6
	2NO+2NC	NO NC NO NC / C C			
Emergency push button push locking in clockwise direction, move reset signal pole	NO+NC	NO NC / C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-11ZS	(TOP) Ø 23.6
Emergency push button push locking in clockwise direction, move reset signal pole	2NO+2NC	NO NC NO NC / C C	● Red ● Green ● Yellow ○ White ● Blue	3SA16-22ZS	(TOP) Ø 23.6
90° 2 Position	NO+NC	NO NC / C	● Black	3SA16-11XA-2P 3SA16-11XA-3P	(TOP) ø18
90° 2 Position	NO+NC	NO NC / C	● Black	3SA16-11XF-2P 3SA16-11XF-3P	(TOP) ø18
90° 2 Position	NO+NC	NO NC / C	● Black	3SA16-11XCF-2P 3SA16-11XCF-3P	(TOP) 18
45° 3 Position	2NO+2NC	NO NC NO NC / C C	● Black	3SA16-22XA-2P 3SA16-22XA-3P	(TOP) 18
45° 3 Position	2NO+2NC	NO NC NO NC / C C	● Black	3SA16-22XF-2P 3SA16-22XF-3P	(TOP) 18
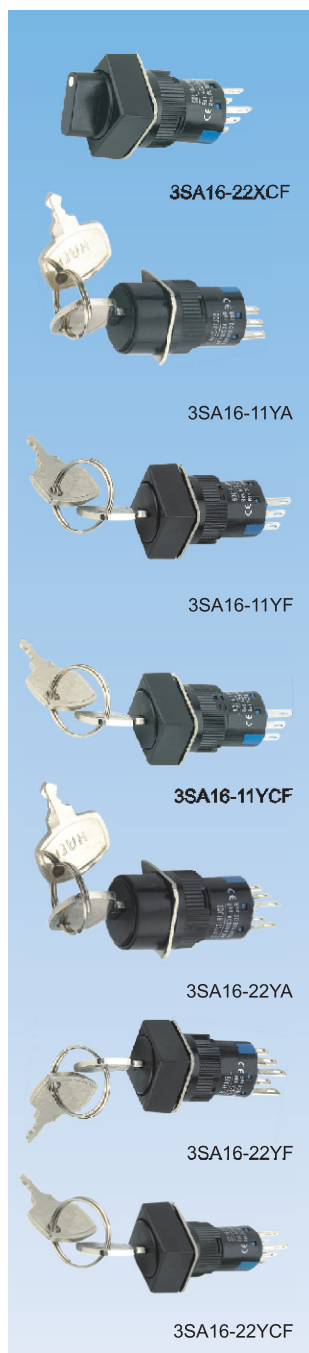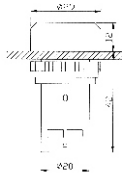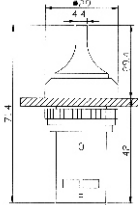
Product images (left column):
- 3SA16-11M
- 3SA16-11ZS
- 3SA16-22ZS
- 3SA16-11XA
- 3SA16-11XF
- 3SA16-11XCF
- 3SA16-22XA
- 3SA16-22XF

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Pushbutton & Indicator

	Description	Contact	Circuit	Color	Type	Contour
3SA16-22XCF	45° 3 Position	2NO+2NC	NO NC NO NC / C C	● Black	3SA16-22XCF-2P 3SA16-22XCF-3P	(TOP) 18 / 30 24
3SA16-11YA	90° 2 Position	NO+NC	NO NC / C	○ Null	3SA16-11YA-2P 3SA16-11YA-3P	(TOP) ø18
3SA16-11YF	90° 2 Position	NO+NC	NO NC / C	○ Null	3SA16-11YF-2P 3SA16-11YF-3P	(TOP) ø18
3SA16-11YCF	90° 2 Position	NO+NC	NO NC / C	○ Null	3SA16-11YCF-2P 3SA16-11YCF-3P	(TOP) 18 / 18
3SA16-22YA	45° 3 Position	2NO+2NC	NO NC NO NC / C C	○ Null	3SA16-22YA-2P 3SA16-22YA-3P	(TOP) 18
3SA16-22YF	45° 3 Position	2NO+2NC	NO NC NO NC / C C	○ Null	3SA16-22YF-2P 3SA16-22YF-3P	(TOP) 18 / 24
3SA16-22YCF	45° 3 Position	2NO+2NC	NO NC NO NC / C C	○ Null	3SA16-22YCF-2P 3SA16-22YCF-3P	(TOP) 18 / 30 24

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Pushbutton Switch

Description	Contact	Circuit	Color	Type	Contour
Flush pushbutton	NO+NC	NO ⎯⎯ C / NC	○ White	3SA17-CA15	
			● Black	3SA17-CA25	
			● Green	3SA17-CA35	
			● Red	3SA17-CA45	
			● Yellow	3SA17-CA55	
			● Blue	3SA17-CA65	
Flush pushbutton with lamp	NO+NC	X1 ⊗ X2 NO ⎯⎯ C / NC	○ White	3SA17-CW3165	
			● Green	3SA17-CW3365	
			● Red	3SA17-CW3465	
			● Yellow	3SA17-CW3565	
			● Blue	3SA17-CW3665	
Mushroom pushbutton with lamp	NO+NC	X1 ⊗ X2 NO ⎯⎯ C / NC	● Green	3SA17-CM35	
			● Red	3SA17-CM45	
Emergency push button push-locking and push-reset	NO+NC	NO ⎯⎯ C / NC	● Red	3SA17-CS545	
Selector switch standard handle two positions	NO+NC	NO NC / C ⎯1⎯1⎯ / NO NC	● Black	3SA17-CD25	
	NO+NO	NO NO / C ⎯101⎯ / NO NO	● Black	3SA17-CD33	
Selector switch standard handle two positions with lamp	NO+NC	X1 ⊗ X2 NO NC / C ⎯1⎯1⎯ / NO NC	● Green	3SA17-CK2365	
			● Red	3SA17-CK2465	
			● Yellow	3SA17-CK2565	

![SASSIN INTERNATIONAL ELECTRIC]

Control Stations

3SA10-B103

3SA10-B112

3SA10-B164H29

3SA10-J174

3SA10-J184

3SA10-J178

Start-Stop functions(Light grey lid with dark grey base)

Description	Scheme	Marking on legend	Marking on button	Reference	Weight kg
1 green flush pushbutton spring return	N/O + N/C	Start	—	3SA10-B101H29	0.120
		—	I	3SA10-B102	0.120
		—	Start	3SA10-B103	0.120
1 red flush pushbutton spring return	N/O	Stop	—	3SA10-B111H29	0.120
		—	Stop	3SA10-B114	0.120
		—	O	3SA10-B112	0.120
1 red mushroom head pushbutton, ϕ40 mm spring return	N/C	Emergency stop	—	3SA10-B164H29	0.120
1 red flush pushbutton spring return	N/C	—	Stop	3SA10-B116	0.120

Emergency stop functions(yellow lid with dark grey base)

Description	Scheme	Marking on legend	Marking on button	Reference	Weight kg
1 red mushroom head pushbutton, ϕ40 mm, latching Turn to release	N/C		Unmarked	3SA10-J174	0.14
1 red mushroom head pushbutton, ϕ40 mm, latching Key release(key n° 445)	N/C		Unmarked	3SA10-J184	0.17

Emergency stop functions with (yellow lid with dark grey base)

Description	Scheme	Marking on legend	Marking on button	Reference	Weight kg
1 red mushroom head pushbutton, ϕ40 mm, latching Turn to release			Unmarked	3SA10-J178	0.14
1 red mushroom head pushbutton, ϕ40 mm, latching Key release(key n° 445)			Unmarked	3SA10-J188	0.17
Other versions	Use adaptable sub-assemblies: empty enclosures,contact blocks,signalling units,operators,legend plates(see pages 5/28 to 5/31).				

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Control Stations

3SA10-B211H29

3SA10-B213

3SA10-B132H29

3SA10-B142H29

3SA10-B361H29

3SA10-B373

Start-Stop functions(Light grey lid with dark grey base)

Description	Scheme	Marking on legend	Marking on button	Reference	Weight kg
2 spring return pushbutton 1 flush green 1 flush red	N/O [13 14] + N/C [21 22]	Start Stop	— —	3SA10-B211H29	0.165
		— —	I O	3SA10-B213	0.165
		— —	Start Stop	3SA10-B215	0.165
1 selector switch 2 position stay put standard black handle	N/O [I II 13 14]	Start Stop	— —	3SA10-B132H29	0.125
		O I	— —	3SA10-B134	0.125
1 selector switch key operated(key n° 455) 2 position stay put key withdrawal from LH position	N/C [I II 13 14]	Start Stop	— —	3SA10-B142H29	0.150
		O I	— —	3SA10-B144	0.150

Start-Stop functions with pilot light(Light grey lid with dark grey base)

| Description	Scheme	Marking on legend	Marking on button	Reference	Weight kg
1 red pilot light Direct supply≤130V Bulb not included(1) + 2 spring return pushbuttons 1 flush green 1 flush red	X1 X2 N/O [13 14] + N/C [21 22]	Start Stop	— —	3SA10-B361H29	0.200
		— —	I O	3SA10-B363	0.200
		— —	Start Stop	3SA10-B366	0.200
1 red pilot light,230V Supply direct through resistor Bulb with BA 9s base fitting-130V(included) + 2 spring return pushbuttons 1 flush green 1 flush red	X1 X2 N/O [13 14] + N/C [21 22]	Start Stop	— —	3SA10-B371H29	0.205
		— —	I O	3SA10-B373	0.205
		— —	Start Stop	3SA10-B376	0.205

(1)Bulb types for use with direct supply:
-incandescent bulb, BA 9s base fitting: U≤130V, maximum power 2.6W, maximum length: 28 mm,
-neon bulb, BA 9s base fitting:110V≤U≤380V.
Please consult our local representatives or agents.

Other versions — Use adaptable sub-assemblies:
empty enclosures, contact blocks, signaling units, operators, legend plates (see pages 5/28 to 5/31).

Control Stations

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3SA10-D102

3SA10-D115

3SA10-D164

3SA10-K174

3SA10-K184

Description	Color	Contact type		Marking on button	Type
Flush pushbuttons	● (green)	N/O		I	3SA10-D102
		N/O		OFF	3SA10-D104
		N/O		Start	3SA10-D103
		N/O	N/C	I	3SA10-D102E
	● (red)		N/C	O	3SA10-D112
				NO	3SA10-D117
				Stop	3SA10-D114
		N/O	N/C	O	3SA10-D112E
				Stop	3SA10-D114E
Projecting red			N/C	O	3SA10-D115
				NO	3SA10-D118
				Stop	3SA10-D116
Flush pushbuttons	● (green)	N/O		OFF	3SA10-D101
				Start	3SA10-D101H29
	● (red)		N/C	O	3SA10-D111
				Stop	3SA10-D111H29
Mushroom red			N/C		3SA10-D164
Turn to release Φ40			N/C		3SA10-K174
		N/O	N/C		3SA10-K174E
		N/O	2N/C		3SA10-K178G
Key release (keyn° 455)red			N/C		3SA10-K184
		N/O	N/C		3SA10-K184E
		N/O	2N/C		3SA10-K188G

Control Stations

3SA10-D211

3SA10-D213

3SA10-D132

3SA10-D142

3SA10-D363M

Description	Color	Contact type		Marking on button	Type
2Flush pushbutton	1Green 1Red	N/O			3SA10-D211
			N/C		
				Start	
				Stop	3SA10-D211H29
		N/O			
		N/O			3SA10-D241
2Flush pushbutton	1Green 1Red	N/O		I	3SA10-D213
			N/C	O	
					3SA10-D224
				Start	
				Stop	3SA10-D215
		N/O	N/C	I	
		N/O	N/C	O	3SA10-D213E
		N/O		I	
			N/C	O	3SA10-D214
				Start	
				Stop	3SA10-D225
1Selection standard handle		N/O		O—I	3SA10-D134
					3SA10-D132
				Start	
				Stop	3SA10-D144
		N/O	N/C	I	
		N/O		O	3SA10-D142
		N/O		O—I	3SA10-D144E
				Start	3SA10-D144
				Stop	
		N/O	N/C		
		N/O	N/C		3SA10-D142
					3SA10-D144E
2Flush pushbutton 1Red lamp		N/O		I ≈24	3SA10-D363B
			N/C	O	
				~230	3SA10-D363M
		N/O			
			N/C	≈24	3SA10-D361B
				~230	3SA10-D361M

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Indicators

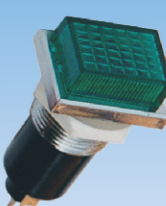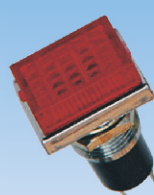|					
PL-15-1 Φ16	PH-16-MTH Φ16	3SA1-22 Φ22	XD1 Φ16	XD1 Φ16	YL242-01 Φ16

YL235 Φ10

YL240 Φ10

YL240-01 YL240-02 YL240-03 YL240-04 YL240-05 YL240-06
Φ10

YL238-03 YL238-04 YL238-05 YL238-06
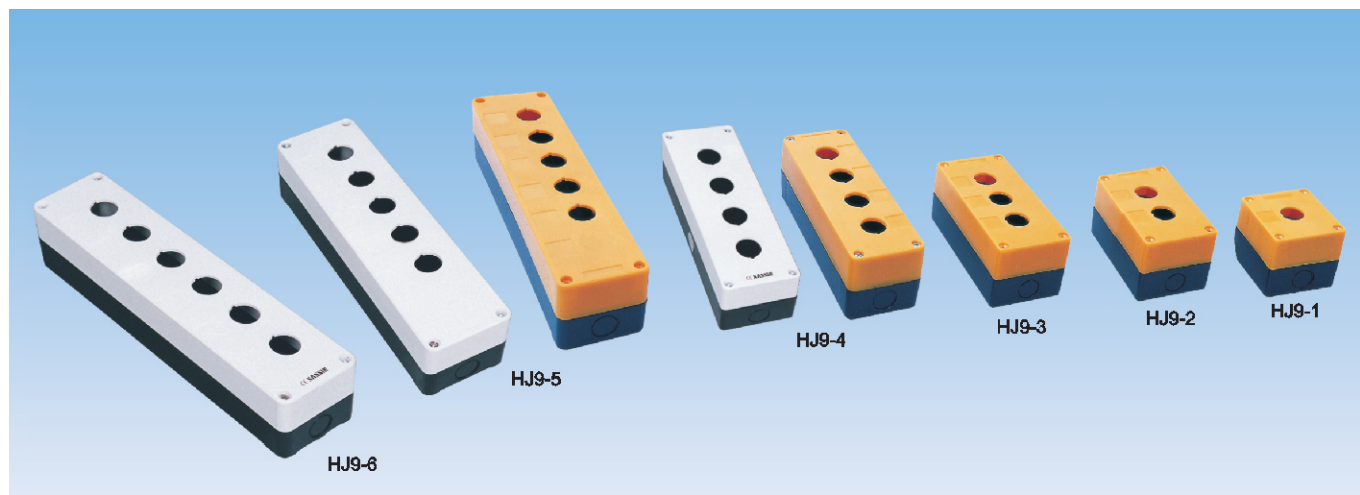Φ8

XD02-1 XD02-2 XD02-3 XD02-4
Φ10

YL23-1 YL23-2 YL23-3
Φ16

Pushbutton Switch Box

HJ9-6
HJ9-5
HJ9-4
HJ9-3
HJ9-2
HJ9-1

Indicators

| YL244-01 | YL244-02 | YL244-03 | YL244-04 Φ10 | YL244-05 | YL244-06 | XD01 Φ16 | XD02 Φ16 | XD03 Φ13 | XD05 Φ13 | XD02 Φ16 | PL-30N | PL-30N |

Pushbutton

| 3SA7-61 | 3SA7-61A | 3SA7-62 | 3SA7-63 | 3SA7-63A |

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BS Power push button switch

BS211   BS216   BS230

■ Application

BS power push button switch is applicable to the motor of the voltage up 500V and the capacity up to 3KW for directly starting run and breaking, also for infrequently turning on and off load current. It's characteristic of accurate on-off,safe and reliable, high intensity of machinery and widely used in machine tools, textile machinery, etc. The switch is the best choice for machinery power.
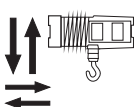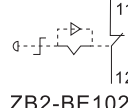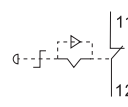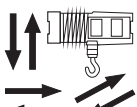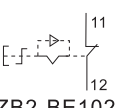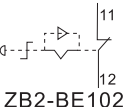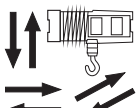
■ Application

Type	No.of phases	Rated voltage (v)	Applicable motor capacity KW（HP）	Resistance load (A)	Weight (kg)	Dimensions L×B×H
BS-211	2, 3	600	0.75(1)at 220V	7.5(100	0.13	90×44×49
BS216	2, 3	600	2.2(3)at 220V	15(20)	0.18	93×53×54
BS230	2, 3	600	220V	(30)	0.22	112×62×56

![SASSIN INTERNATIONAL ELECTRIC logo]

Pushbutton
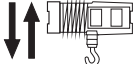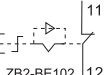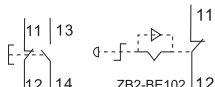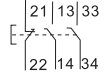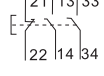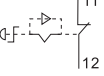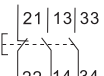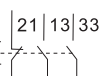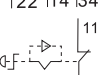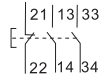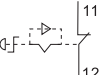
For control of single-speed motors

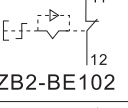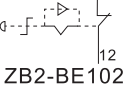| Functions	Number of operators	Contact blocks and scheme per direction for "Emergency stop"	Reference
	4 mechanically interlocked between pairs	ZB2-BE101 ⟨13 14⟩	3SP-471
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩	3SP-481
	4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Φ40 mm operator ZA2-BS54	ZB2-BE101 ⟨13 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-4713
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-4813
	6 mechanically interlocked between pairs	ZB2-BE101 ⟨13 14⟩	3SP-671
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩	3SP-681
	6 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Φ40 mm operator ZA2-BS44	ZB2-BE101 ⟨13 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-6713
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-6813
	6 mechanically interlocked between pairs	ZB2-BE101 ⟨13 14⟩	3SP-871
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩	3SP-881
	6 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Φ40 mm operator ZA2-BS44	ZB2-BE101 ⟨13 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-8713
		ZB2-BE102 + ZB2-BE101 ⟨11 13 / 12 14⟩ ZB2-BE102 ⟨11 12⟩	3SP-8813

3SP-471

3SP-671

3SP-6713

3SP-871

Pushbutton

For control of 2-speed motors

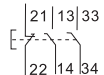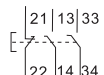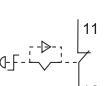| Functions	Number of operators	Contact blocks and scheme per direction for "Emergency stop"	Reference
	2 mechanically interlocked	ZB2-BE101 [13 / 14]	3SP-271
		ZB2-BE102 + ZB2-BE101 [21 13 / 22 14]	3SP-281
	2 mechanically interlocked +1 trigger action latching "Emergency stop" Φ30 mm operator ZA2-BS44	ZB2-BE101 [13 / 14] ZB2-BE102 [11 / 12]	3SP-2713
		ZB2-BE102 + ZB2-BE101 [11 13 / 12 14] ZB2-BE102 [11 / 12]	3SP-2813
	2 mechanically interlocked	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34]	3SP-291
	2 mechanically interlocked +1 trigger action latching "Emergency stop" Φ30 mm operator ZA2-BS44	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34] 1N/C ZB2-BE102 [11 / 12]	3SP-2913
	4 mechanically interlocked between pairs	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34]	3SP-491
	4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Φ40 mm operator ZA2-BS44	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34] 1N/C ZB2-BE102 [11 / 12]	3SP-4913
	4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Φ40 mm operator ZA2-BS44	1N/C+NO+NO staggered(a) XEN-G1191 [21 13 33 / 22 14 34] 1N/C102(b) [13 / 14] 1N/C ZB2-BE102 [11 / 12]	3SP-4923
	6 mechanically interlocked	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34]	3SP-691
	6 mechanically interlocked +1 trigger action latching "Emergency stop" Φ30 mm operator ZA2-BS44	1N/C+NO+NO staggered XEN-G1191 [21 13 33 / 22 14 34] 1N/C ZB2-BE102 [11 / 12]	3SP-6913

3SP-2713

3SP-291

3SP-491

3SP-691