



Company Profile

GREGOO Electric Co., Ltd, located in Wenzhou, the electric capital of China, is specialized in developing, manufacturing and distributing operator interface components, such as pilot lights, push buttons, selector switches, control stations, based LED bulbs, LED display, LED signal tower, motor siren, buzzer and cabinet lock etc. along with about 10,000 components.

Owning skilled workers, advanced equipment and strict quality control process, GREGOO has passed ISO9001:2000 and obtained CE and ROHS approval. Our products are enjoying high popularity in Russia, France, Italy, Spain, Australia, India, Singapore, Thailand, Korea, Iran, Saudi, South Africa and Brazil etc. Especially, our push button and pilot lights have been cooperating well with GE in USA, CPT in Korea and Hitech in Singapore, Zimpex in Thailand and win good reputation from the buying public.

GREGOO in Chinese means "Honest, Prosperous and Fortunate". While retrospectively to its origin, GREGOO pronounces similar to the Chinese name of SILICON VALLEY in USA and is a symbol of high technology & excellent quality. Based on it, GREGOO will march forward steadily in international market with customers all over the world hand by hand!



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Application range

GB series push button, pilot light, selector switch and control station are used in industrial controlling circuits of AC50Hz or 60Hz with rated working voltage up to 380V and rated DC working current up to 220V, to act as the controller of magnetic controllers, contactors, relays and other electrical circuits. Buttons with pilot light can also be used under the condition of light signal indicating. The products conform to IEC60947-5-1 standards.

Normal working conditions

- Conform to standards: IEC60947-5-1, GB/T 14048.5-93
- Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, the average temperature during 24 hours couldn't exceed $+35^{\circ}\text{C}$
- Altitude: Altitude of installation couldn't exceed 2000m
- Atmosphere condition: Relative humidity of the atmosphere couldn't exceed 50%, when the highest temperature is $+40^{\circ}\text{C}$; much higher relative humidity is allowable under the condition of lower temperature, for example, when the temperature reaches $+20^{\circ}\text{C}$, the relative humidity is up to 90%. As for dews, which contingently appear due to change of temperature, special steps should be taken.
- Pollution grade: Grade III
- Installation class: Class I

Type and meanings

GB 2 -

1 2 3 4 5 6

- 1: Company code
- 2: Design sequence number
- 3: Structure classes:
 - GB2-B/GB4: Metal head
 - GB2-E/GB5: Plastic head
- 4: Derivative type
- 5: Specification code

Main technical parameters

Rated insulation voltage U_i		250V				
Conventional heating current I_{th}		10A				
Rated working voltage		380V	220V	110V	48V	24V
Rated working current I_e	AC-15	2.5A	4.5A	6A	8A	-
	DC-13	-	0.3A	0.6A	1.3A	2.5A

Rated voltage	Direct type							Resistant type	Transformer type	
	6	12	24	48	110	220	380		220	380
Lamp-house										
LED light	✓	✓	✓	-	-	-	-	-	✓	✓
Neon light	-	-	-	-	✓	✓	✓	✓	-	-
Incandescence light	✓	✓	✓	✓	✓	✓	✓	-	✓	✓

- Industrial frequency voltage withstands: 2500V AC, one minute
- Contactor resistance: $\leq 50\text{m}\Omega$ (Initative value)
- Mechanical durability: Flush head style, mushroom head style 1,000,000 times, style with light 300,000 times, others 100,000times
- Electric durability: Flush head style, mushroom head style, and double heads style AC500,000 times, DC 200,000 times, others 100,000 times
- Protection grade: IP40

Derivative type and specification code

Derivative type	Specification code		
A: Flush push button L: Extended push button P: Booted push button C: φ 40 mushroom push button R: φ 60 mushroom push button	1: W ○ 2: B ● 3: G ● 4: R ● 5: Y ● 6: S ●	1: NO 2: NC 3: 2NO 4: 2NC 5: NO+NC	-
S: Mushroom push and turn to release	4: φ 30 5: φ 40 6: φ 60	4: ● (Red)	2: NC
D: Selector switch (standard handle) J: Selector switch (long handle) G: Key switch	2: 2 position lock up 3: 3 position lock up 4: 2 position spring return 5: 3 position spring return	1: NO 2: NC 3: 2NO 4: 2NC 5: NO+NC	-
L8: Button with double heads	3: Flush button 4: Flush button+ Extended button	4: ● R+ ● G	5: NO+NC
W3: Button with light	1: W ○ 3: G ● 4: R ● 5: Y ● 6: S ●	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	1: NO 2: NC 3: 2NO 4: 2NC 5: NO+NC
W8: Button with double heads and light	4: Flush button + Extended button	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	5: NO+NC
V: Pilot light	4: 220V transformer type 5: 380V transformer type 6: Direct type 7: Resistant type	1: W ○ 3: G ● 4: R ● 5: Y ● 5: S ●	-
V1: Economic pilot light	6: Direct type	1: W ○ 3: G ● 4: R ● 5: Y ● 5: S ●	-
CA: Contact block	101: NO contaction group 102: NC contaction group	-	-

Structure and performance

- Adopting anti-moving operation head, the button can't be dismounted from the front side of metal button
- All contacts can play the dual funtions of circuits switching and self-cleaning, this under the condition of low voltage and small current flow(5V, 5mA), application for the products ensures reliabilty of contacting.
- NO and NC contactor groups are independent to each other, and they can be freely combined with each other according to customers' demands. It features for easy replacement.
- Concealed terminals make its operation much safer and more reliable. Adopting Zinc and aluminum alloy metal on its metal head style acting head and its foundation, the pushbutton switch features for elegant appearance and firmness.
- Button with light, signal light universally adopt BA9S light-socket, customers can choose various bulbs according to their demands.

Push buttons with marking

Shape of head	Description	Contact			Marking Text (colour)	Colour	Sold in lots of	Model	Weight (kg)
		N/O	N/C	C/O					

Spring return push buttons

	Flush	1	-	-	START (white)	Green	10	GB7 EA3133P	0.020
	Flush	-	1	-	STOP (white)	Red	10	GB7 EA4234P	0.020
	Flush	1	-	-	↑ (black)	White	10	GB7 EA11341P	0.020
		-	-	1			10	GB7 EA15341P	0.020
	Flush	1	-	-	↓ (white)	Black	10	GB7 EA21341P	0.020
		-	-	1			10	GB7 EA25341P	0.020
	Flush	1	-	-	I(white)	Green	10	GB7 EA3131P	0.020
		2	-	-			10	GB7 EA3331P	0.020
	Flush	1	-	-	II(white)	Green	10	GB7 EA3136P	0.020
		2	-	-			10	GB7 EA3336P	0.020
	Projecting	-	1	-	O(white)	Red	10	GB7 EL4232P	0.020
		-	-	1			10	GB7 EL4532P	0.020

Push buttons without marking

Shape of head	Description	Contact			Colour	Sold in lots of	Model	Weight (kg)
		N/O	N/C	C/O				

Spring return push buttons


	Flush	1	-	-	Black	10	GB7 EA21P(1)	0.020
					Green	10	GB7 EA31P(1)	0.020
					Yellow	10	GB7 EA51P(1)	0.020
		-	1	-	Red	10	GB7 EA42P(1)	0.020
					Black	10	GB7 EA25P	0.020
					Green	10	GB7 EA35P	0.020
		2	-	-	Black	10	GB7 EA23P	0.020
					Green	10	GB7 EA33P	0.020

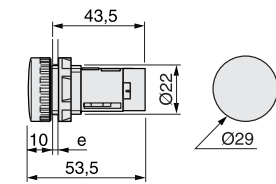
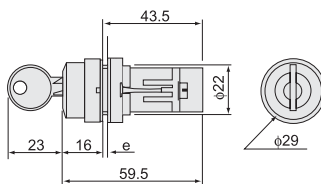
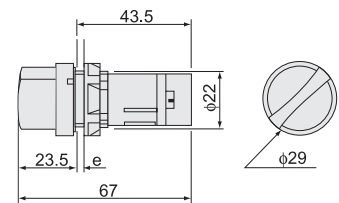
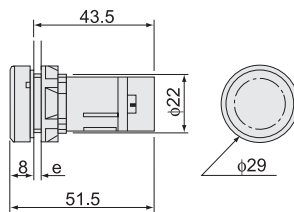
Push and push-to release buttons

	Flush	1	-	-	Black	10	GB7 EH21P	0.020
					Green	10	GB7 EH31P	0.020
		-	-	1	Black	10	GB7 EH25P	0.020
					Green	10	GB7 EH35P	0.020

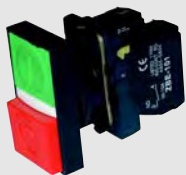
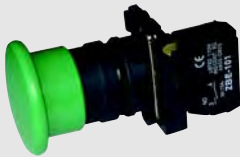
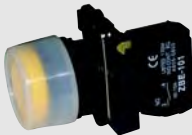
(1) For fasten connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference. Example: GB7 EA21P3.

Pilot lights with BA9S base fitting

Shape of head	Supply	Description	Supply voltage	Colour	Sold in lots of	Model	Weight (kg)
	Direct(2)	For incandescent bulb not included(2) BA9S base fitting	≤ 250V	White	10	GB7 EV61P(1)	0.018
				Green	10	GB7 EV63P(1)	0.018
				Red	10	GB7 EV64P(1)	0.018
				Yellow	10	GB7 EV65P(1)	0.018
				Blue	10	GB7 EV66P(1)	0.018
				Clear	10	GB7 EV67P(1)	0.018
				Orange	10	GB7 EV68P(1)	0.018
	Direct, through resistor	With incandescent bulb 130V-2.6W included BA9S base fitting	~230 50/60Hz	White	10	GB7 EV71P(1)	0.020
				Green	10	GB7 EV73P(1)	0.020
				Red	10	GB7 EV74P(1)	0.020
				Yellow	10	GB7 EV75P(1)	0.020
				Blue	10	GB7 EV76P(1)	0.020
				Clear	10	GB7 EV77P(1)	0.020
				Orange	10	GB7 EV78P(1)	0.020
	Bulb, 130V-2.6W not included BA9S base fitting	~230 50/60Hz	White	10	GB7 EV710P	0.020	
			Green	10	GB7 EV730P	0.020	
			Red	10	GB7 EV740P	0.020	
			Yellow	10	GB7 EV750P	0.020	
			Blue	10	GB7 EV760P	0.020	
			Clear	10	GB7 EV770P	0.020	



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Non-illuminated Push buttons, Momentary (screw clamp terminal connections)

Description	Contact		Colour	Model	Weight (kg)	Dimension	
	N/O	N/C					
Flush	1		● B	GB5-AA21	0.065		
	1		● G	GB5-AA31	0.065		
	1		● Y	GB5-AA51	0.065		
	1		● S	GB5-AA61	0.065		
		1		● R	GB5-AA42		0.065
	1	1	● G	GB5-AA35	0.080		
Flush logo	1		⬆ G	GB5-AA3311	0.065		
	1		⬆ G	GB5-AA3361	0.065		
	1		⬆ W	GB5-AA3341	0.065		
	1		⬆ B	GB5-AA3351	0.065		
		1	● R	GB5-AA4322	0.065		
	1		● R	GB5-AA4342	0.065		
Flush with clear silica gel	1		● B	GB5-AP21	0.067		
	1		● G	GB5-AP31	0.067		
	1		● Y	GB5-AP51	0.067		
	1		● S	GB5-AP61	0.067		
		1	● R	GB5-AP42	0.067		
	1	1	● Y	GB5-AP55	0.082		
		2	○ W	GB5-AP13	0.082		
Extended		2	● B	GB5-AP24	0.082		
	1		● B	GB5-AL21	0.066		
	1		● G	GB5-AL31	0.066		
	1		● Y	GB5-AL51	0.066		
	1		● S	GB5-AL61	0.066		
		1	● R	GB5-AL42	0.066		
	1	1	● Y	GB5-AL55	0.081		
Mushroom φ 40mm		2	○ W	GB5-AL13	0.081		
	1		● B	GB5-AC21	0.107		
	1		● G	GB5-AC31	0.107		
		1	● R	GB5-AC42	0.107		

Two Button Push buttons, Momentary (screw clamp terminal connections)

Description	Contact		Scheme	Degree of protection	Model	Weight (kg)	Dimension
	N/O	N/C					
One flush green push (marked "I") One extended red push (marked "O")	1	1	⬆ —	IP40	GB5-AL845	0.091	
	1	1	⬆ —	IP66	GB5-AL945	0.096	



Non-illuminated Emergency Stop Mushroom Head Push buttons (Red)

Description	Contact		Dia	Model	Weight (kg)	Dimension
	N/O	N/C				
Push-pull		1	φ 40	GB5-AT42	0.110	
Trigger action push-pull	1	1	φ 40	GB5-AT845	0.110	
	1	1	φ 60	GB5-AX42	0.110	
Turn to release		1	φ 30	GB5-AS442	0.103	
		1	φ 40	GB5-AS542	0.103	
		1	φ 60	GB5-AS642	0.103	
Trigger action turn to release	1	1	φ 40	GB5-AS8445	0.115	
Key release (No.455)		1	φ 30	GB5-AS742	0.103	
		1	φ 40	GB5-AS142	0.117	
		1	φ 60	GB5-AS242	0.103	
Trigger action key release (No. 455)	1	1	φ 40	GB5-AS9445	0.155	

**Non-illuminated Selector Switches (screw clamp terminal connections)
Standard handle (black)**

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1		∨	GB5-AD21	0.080	
	1	1		GB5-AD25	0.105	
	1		↶	GB5-AD41	0.080	
	1	1		GB5-AD45	0.105	
3 position	2		∨	GB5-AD33	0.105	
	2			GB5-AD53	0.105	
	2		∨	GB5-AD73	0.105	
	2			GB5-AD83	0.105	

Long handle (black)

2 position	1		∨	GB5-AJ21	0.081	
	1	1		GB5-AJ25	0.090	
	1		↶	GB5-AJ41	0.081	
	1	1		GB5-AJ45	0.090	
3 position	2		∨	GB5-AJ33	0.090	
	2			GB5-AJ53	0.090	
	2		∨	GB5-AJ73	0.090	
	2			GB5-AJ83	0.090	

Explain: ∨ ∨ :Lock up ↶ :1 spring return from right to left ∨ :2 spring return to centre

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Non-illuminated Key Switches (screw clamp terminal connections)

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB5-AG21	0.102	
	1	1		GB5-AG25	0.112	
	1			GB5-AG41	0.102	
	1	1		GB5-AG45	0.112	
	1			GB5-AG61	0.102	
	1	1		GB5-AG65	0.112	
3 position	2			GB5-AG33	0.112	
	2			GB5-AG53	0.112	
	2			GB5-AG03	0.112	
	2			GB5-AG73	0.112	
	2			GB5-AG83	0.112	



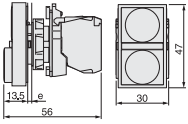




Explain: :Lock up :1 spring return from right to left :Key withdrawal position(s)

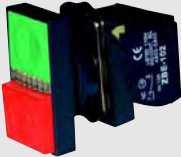


Illuminated Push buttons, Momentary, Flush (screw clamp terminal connections)



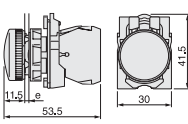





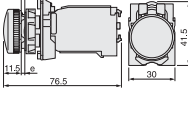



Power voltage	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Protected LED 24Vac/Vdc	1	1	○ W	GB5-AW31B5	0.082	
	1	1	● G	GB5-AW33B5	0.082	
	1	1	● R	GB5-AW34B5	0.082	
	1	1	● Y	GB5-AW35B5	0.082	
		1		● S	GB5-AW36B5	
Protected LED 110-120Vac	1	1	○ W	GB5-AW31G5	0.082	
	1	1	● G	GB5-AW33G5	0.082	
	1	1	● R	GB5-AW34G5	0.082	
	1	1	● Y	GB5-AW35G5	0.082	
	1	1	● S	GB5-AW36G5	0.082	
		1				
Protected LED 220-240Vac/Vdc	1	1	○ W	GB5-AW31M5	0.082	
	1	1	● G	GB5-AW33M5	0.082	
	1	1	● R	GB5-AW34M5	0.082	
	1	1	● Y	GB5-AW35M5	0.082	
	1		● S	GB5-AW36M5	0.082	

Double-headed push buttons, spring return (screw clamp terminal connections)

Description	Scheme	Contact		Degree of protection	Model	Dimension
	Power voltage	N/O	N/C			
With pilot light 1 flush green 2 pilot light with yellow lens 2 extended red	24  	1	1	IP40	GB5-AW84B5	
	~48...120  	1	1	IP40	GB5-AW84G5	
	~220...240  	1	1	IP40	GB5-AW84M5	



Pilot lights for BA9s bulb (screw clamp terminal connections)

Description	Colour	Supply voltage	Scheme	Model	Dimension
Direct supply, for BA 9s (LED, neon) U < 250V, 2.4W bulb (bulb not included)	 W	≤ 250Vac/Vdc	x1  x2	GB5-AV61	
	 G			GB5-AV63	
	 R			GB5-AV64	
	 Y			GB5-AV65	
Transformer type with 1.2VA 6V BA9s incandescent bulb included	 W	110~120V 50/60Hz	x1  x2	GB5-AV31	
	 G			GB5-AV33	
	 R			GB5-AV34	
	 Y			GB5-AV35	

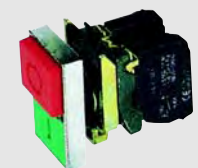
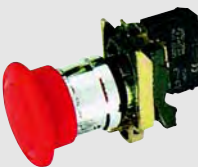
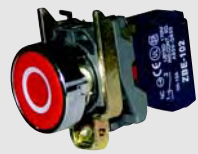


Pilot lights with protected LED (screw clamp terminal connections)

Supply voltage	Colour	Model	Weight (kg)	Dimension
24Vac/Vdc	 W	GB5-AVB1	0.065	
	 G	GB5-AVB3	0.065	
	 R	GB5-AVB4	0.065	
	 Y	GB5-AVB5	0.065	
	 S	GB5-AVB6	0.065	
110~120Vac	 W	GB5-AVG1	0.065	
	 G	GB5-AVG3	0.065	
	 R	GB5-AVG4	0.065	
	 Y	GB5-AVG5	0.065	
	 S	GB5-AVG6	0.065	
220~240Vac	 W	GB5-AVM1	0.065	
	 G	GB5-AVM3	0.065	
	 R	GB5-AVM4	0.065	
	 Y	GB5-AVM5	0.065	
	 S	GB5-AVM6	0.065	



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Non-illuminated Push buttons, Momentary (screw clamp terminal connections)

Description	Contact		Colour	Model	Weight (kg)	Dimension	
	N/O	N/C					
Flush	1		● B	GB4-BA21	0.080		
	1		● G	GB4-BA31	0.080		
	1		● Y	GB4-BA51	0.080		
	1		● S	GB4-BA61	0.080		
		1		● R	GB4-BA42		0.080
	1		● Y	GB4-BA55	0.080		
	2		○ W	GB4-BA13	0.095		
Flush logo		2	● B	GB4-BA24	0.095		
	1		● G	GB4-BA3311	0.080		
	1		● G	GB4-BA3361	0.080		
	1		○ W	GB4-BA3341	0.080		
	1		● B	GB4-BA3351	0.080		
Flush with clear silica gel (color of pusher unobscured)		1	● R	GB4-BA4322	0.080		
	1		● B	GB4-BP21	0.082		
	1		● G	GB4-BP31	0.082		
	1		● Y	GB4-BP51	0.082		
	1		● S	GB4-BP61	0.082		
		1		● R	GB4-BP42		0.082
	1	1	● Y	GB4-BP55	0.097		
Extended	2		○ W	GB4-BP13	0.097		
		2	● B	GB4-BP24	0.097		
	1		● B	GB4-BL21	0.081		
	1		● G	GB4-BL31	0.081		
	1		● Y	GB4-BL51	0.081		
	1		● S	GB4-BL61	0.081		
		1		● R	GB4-BL42		0.081
Mushroom φ 40mm	1	1	● Y	GB4-BL55	0.096		
	2		○ W	GB4-BL13	0.096		
		2	● B	GB4-BL24	0.096		
	1		● B	GB4-BC21	0.122		
	1		● G	GB4-BC31	0.122		
		1	● R	GB4-BC42	0.122		

Two Button Push buttons, Momentary (screw clamp terminal connections)

Description	Contact		Degree of protection	Scheme	Model	Weight (kg)	Dimension
	N/O	N/C					
One flush green push (marked "I") One extended red push (marked "O")	1	1	IP40		GB4-BL845	0.106	
	1	1	IP66		GB4-BL945	0.111	



Non-illuminated Emergency Stop Mushroom Head Push buttons (Red)

Description	Contact		Dia	Model	Weight (kg)	Dimension
	N/O	N/C				
Push-pull		1	φ 40	GB4-BT42	0.125	
Trigger action push-pull	1	1	φ 40	GB4-BT845	0.125	
Turn to release		1	φ 40	GB4-BS542	0.118	
Trigger action turn to release		1	φ 40	GB4-BS8445	0.130	
Key release (No.455)		1	φ 40	GB4-BS142	0.133	
Trigger action key release (No.455)	1	1	φ 40	GB4-BS9445	0.170	

Non-illuminated Selector Switches (screw clamp terminal connections)
Standard handle (black)

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB4-BD21	0.095	
	1	1		GB4-BD25	0.105	
	1			GB4-BD41	0.095	
	1	1		GB4-BD45	0.105	
3 position	2			GB4-BD33	0.105	
	2			GB4-BD53	0.105	

Long handle (black)

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB4-BJ21	0.096	
	1	1		GB4-BJ25	0.105	
	1			GB4-BJ41	0.096	
	1	1		GB4-BJ45	0.105	
3 position	2			GB4-BJ33	0.105	
	2			GB4-BJ53	0.105	

Explain: :Lock up :1 spring return from right to left :2 spring return to centre

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**Non-illuminated Key Switches (screw clamp terminal connections)
 Key lock switches**

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB4-BG21	0.117	
	1	1		GB4-BG25	0.127	
	1			GB4-BG41	0.117	
	1	1		GB4-BG45	0.127	
	1			GB4-BG61	0.117	
	1	1		GB4-BG65	0.127	
3 position	2			GB4-BG33	0.127	
	2			GB4-BG53	0.127	
	2			GB4-BG03	0.127	

Explain: :Lock up :1 spring return from right to left :Key withdrawal position(s)









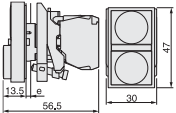
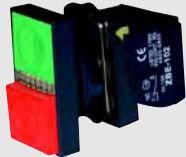
Illuminated Push buttons, Momentary, Flush(screw clamp terminal connections)

Power voltage	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Protected LED 24Vac/Vdc	1	1	○ W	GB4-BW31B5	0.097	
	1	1	● G	GB4-BW33B5	0.097	
	1	1	● R	GB4-BW34B5	0.097	
	1	1	● Y	GB4-BW35B5	0.097	
	1	1	● S	GB4-BW36B5	0.097	
Protected LED 110~120Vac	1	1	○ W	GB4-BW31G5	0.097	
	1	1	● G	GB4-BW33G5	0.097	
	1	1	● R	GB4-BW34G5	0.097	
	1	1	● Y	GB4-BW35G5	0.097	
	1	1	● S	GB4-BW36G5	0.097	
Protected LED 110~120Vac	1	1	○ W	GB4-BW31M5	0.097	
	1	1	● G	GB4-BW33M5	0.097	
	1	1	● R	GB4-BW34M5	0.097	
	1	1	● Y	GB4-BW35M5	0.097	
	1	1	● S	GB4-BW36M5	0.097	




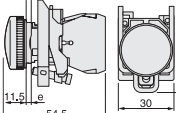







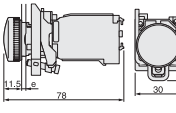






Double-headed push buttons, Spring return (screw clamp terminal connections)

Description	Scheme	Contact		Degree of protection	Model	Dimension
	Power voltage	N/O	N/C			
With pilot light 1 flush green 2 pilot light with yellow lens 2 extended red	24	 	1	1	IP40	GB4-BW84B5
	~48...120	 	1	1	IP40	GB4-BW84G5
	~230...240	 	1	1	IP40	GB4-BW84M5





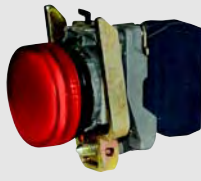
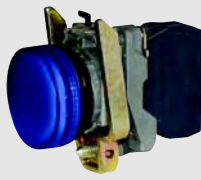
Pilot light for BA9s bulb (screw clamp terminal connections)

Description	Colour	Supply voltage	Scheme	Model	Dimension
Direct bulb included BA9s base fitting	 W	130V 220/240V 50/60Hz	 x1  x2	GB4-BV61	
	 G			GB4-BV63	
	 R			GB4-BV64	
	 Y			GB4-BV65	
	 S			GB4-BV66	
Through transformer 1.2VA BA9s, 6V bulb supplied	 W	~220~240V 50Hz	 x1  x2	GB4-BV41	
	 G			GB4-BV43	
	 R			GB4-BV44	
	 Y			GB4-BV45	
	 S			GB4-BV46	



Pilot light with Protected LED (screw clamp terminal connections)

Supply voltage	Colour	Model	Weight (kg)	Dimension
24Vac/Vdc	 W	GB4-BVB1	0.080	
	 G	GB4-BVB3	0.080	
	 R	GB4-BVB4	0.080	
	 Y	GB4-BVB5	0.080	
	 S	GB4-BVB6	0.080	
110~120Vac	 W	GB4-BVG1	0.080	
	 G	GB4-BVG3	0.080	
	 R	GB4-BVG4	0.080	
	 Y	GB4-BVG5	0.080	
	 S	GB4-BVG6	0.080	
220~240Vac	 W	GB4-BVM1	0.080	
	 G	GB4-BVM3	0.080	
	 R	GB4-BVM4	0.080	
	 Y	GB4-BVM5	0.080	
	 S	GB4-BVM6	0.080	



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Spring return push buttons

Description	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Flush	1		○ W	GB2-BA11	0.70	
	1		● B	GB2-BA21	0.70	
	1		● G	GB2-BA31	0.70	
	1		● Y	GB2-BA51	0.70	
	1		● S	GB2-BA61	0.70	
		1		● B	GB2-BA22	
Flush logo		1	● R	GB2-BA42	0.70	
	1		⊕ R	GB2-BA3311	0.70	
	1		⚡ W	GB2-BA3341	0.70	
	1		⚡ B	GB2-BA3351	0.70	
	1		⚡ G	GB2-BA4322	0.70	
Extended		1	● R	GB2-BA4342	0.70	
	1		● B	GB2-BL21	0.70	
	1		● G	GB2-BL31	0.70	
	1		● Y	GB2-BL51	0.70	
	1		● S	GB2-BL61	0.70	
		1		● B	GB2-BL22	
Extended logo		1	● R	GB2-BL42	0.70	
		1	● R	GB2-BL4322	0.70	
Booted		1	● R	GB2-BL4342	0.70	
	1		● B	GB2-BP21	0.70	
	1		● G	GB2-BP31	0.70	
	1		● Y	GB2-BP51	0.70	
	1		● S	GB2-BP61	0.70	
	1		● R	GB2-BP42	0.70	

Mushroom head push buttons

Description	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Mushroom φ 40mm	1		● B	GB2-BC21	0.90	
	1		● G	GB2-BC31	0.90	
	1		● Y	GB2-BC51	0.90	
	1		● S	GB2-BC61	0.90	
		1		● R	GB2-BC42	
Mushroom φ 60mm	1		● B	GB2-BR21	0.95	
	1		● G	GB2-BR31	0.95	
	1		● Y	GB2-BR51	0.95	
	1		● S	GB2-BR61	0.95	
		1		● R	GB2-BR42	

Emergency stop push buttons

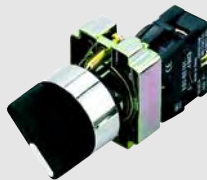
Latching mushroom head "Emergency Stop" push buttons(colour red)



Description	Contact		Dia	Model	Weight (kg)	Dimension
	N/O	N/C				
Push-pull		1	φ 40	GB2-BT42	0.115	
		1	φ 60	GB2-BX42	0.120	
Push and turn to release		1	φ 30	GB2-BS442	0.085	
		1	φ 40	GB2-BS542	0.095	
		1	φ 60	GB2-BS642	0.105	
Key release (Ronis n° 455)		1	φ 30	GB2-BS742	0.130	
		1	φ 40	GB2-BS142	0.140	
		1	φ 60	GB2-BS242	0.160	

Selector switches

Standard handle



Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB2-BD21	0.085	
	1	1		GB2-BD25	0.100	
	1			GB2-BD41	0.085	
	1	1		GB2-BD45	0.100	
3 position	2			GB2-BD33	0.100	
	2			GB2-BD53	0.100	
	2			GB2-BD73	0.100	

Long handle



Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB2-BJ21	0.085	
	1	1		GB2-BJ25	0.100	
	1			GB2-BJ41	0.085	
	1	1		GB2-BJ45	0.100	
3 position	2			GB2-BJ33	0.100	
	2			GB2-BJ53	0.100	
	2			GB2-BJ73	0.100	

Explain: :Lock up :1 spring return from right to left :2 spring return to centre

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Key switches (Ronis n° 455)

Key lock switches

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB2-BG21	0.110	
	1	1		GB2-BG25	0.125	
	1			GB2-BG41	0.110	
	1	1		GB2-BG45	0.125	
	1			GB2-BG61	0.110	
	1	1		GB2-BG65	0.125	
3 position	2			GB2-BG33	0.125	
	2			GB2-BG53	0.125	
	2			GB2-BG03	0.125	
	2			GB2-BG73	0.125	

Explain: :Lock up :1 spring return from right to left :Key withdrawal position(s)



Pushbutton with lamp

Butch haircut push button with light (spring return)

Power voltage	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Directness 6.3V-220V With neon light	1		○ W	GB2-BW3161	0.120	
	1		● G	GB2-BW3361	0.120	
		1	● R	GB2-BW3462	0.120	
	1		● Y	GB2-BW3561	0.120	
	1		● B	GB2-BW3661	0.120	
	1	1	● G	GB2-BW3365	0.135	
AC/DC 24V With LED light	1		○ W	GB2-BW31B1	0.120	
	1		● G	GB2-BW33B1	0.120	
	1		● R	GB2-BW34B1	0.120	
	1		● Y	GB2-BW35B1	0.120	
	1		● S	GB2-BW36B1	0.120	
AC/DC 220V With LED light	1		○ W	GB2-BW31M1	0.120	
	1		● G	GB2-BW33M1	0.120	
	1		● R	GB2-BW34M1	0.120	
	1		● Y	GB2-BW35M1	0.120	
	1		● S	GB2-BW36M1	0.120	
Resistance 6.3V-220V With neon light	1		○ W	GB2-BW3171	0.105	
	1		● G	GB2-BW3371	0.105	
		1	● R	GB2-BW3472	0.105	
	1		● Y	GB2-BW3571	0.105	
	1		● B	GB2-BW3671	0.105	
	1	1	● G	GB2-BW3375	0.105	
Transformer 220V	1		○ W	GB2-BW3141	0.105	
	1		● G	GB2-BW3341	0.105	
		1	● R	GB2-BW3442	0.105	
	1		● Y	GB2-BW3541	0.105	
	1		● B	GB2-BW3641	0.105	
	1	1	● G	GB2-BW3345	0.135	



Double-headed push buttons, spring return

Two push buttons

Description	Contact		Scheme	Degree of protection	Model	Dimension
	N/O	N/C				
Without pilot light 1 flush green 2 extended red	1	1		IP 40	GB2-BL8325	
	1	1		IP 65	GB2-BL9325	
	1	1		IP 40	GB2-BL8425	
	1	1		IP 65	GB2-BL9425	
1 flush green 2 pilot light with yellow lens (Direct supply < 380V) 3 extended red	1	1		IP 40	GB2-BW8365	
	1	1		IP 40	GB2-BW8465	
1 flush green 2 pilot light with yellow lens (220/250V supply) 3 extended red	1	1		IP 40	GB2-BW8375	
	1	1		IP 40	GB2-BW8475	
1 flush green 2 pilot light with yellow lens (220/380V 50Hz) supply is through transformer 3 extended red	1	1		IP 40	GB2-BW8345	
	1	1		IP 40	GB2-BW8445	
	1	1		IP 40	GB2-BW8355	
				IP 40	GB2-BW8455	

Pilot light

Description	Colour	Supply voltage	Scheme	Model	Dimension
Direct BA9S with neon light	W	≤ 380V		GB2-BV61	
	G			GB2-BV63	
	R			GB2-BV64	
	Y			GB2-BV65	
	S			GB2-BV66	
Direct through resistor BA9S, 130V with neon light	W	220/250V		GB2-BV71	
	G			GB2-BV73	
	R			GB2-BV74	
	Y			GB2-BV75	
	S			GB2-BV76	
Through transformer 12VA BA9S, 6V with neon light	W	220~240V/50Hz		GB2-BV41	
	G			GB2-BV43	
	R			GB2-BV44	
	Y			GB2-BV45	
	S			GB2-BV46	

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Push buttons spring return

Description	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Flush	1		○ W	GB2-EA11	0.045	
	1		● B	GB2-EA21	0.045	
	1		● G	GB2-EA31	0.045	
	1		● Y	GB2-EA51	0.045	
	1		● S	GB2-EA61	0.045	
	1	1	● G	GB2-EA35	0.060	
Flush logo	1		ⓘ G	GB2-EA3311	0.045	
	1		Ⓜ G	GB2-EA3361	0.045	
	1		Ⓢ W	GB2-EA3341	0.045	
	1		Ⓡ B	GB2-EA3351	0.045	
	1		Ⓡ R	GB2-EA4322	0.045	
	1		Ⓢ R	GB2-EA4342	0.045	
Extended	1		● B	GB2-EL21	0.045	
	1		● G	GB2-EL31	0.045	
	1		● Y	GB2-EL51	0.045	
	1		● S	GB2-EL61	0.045	
	1	1	● G	GB2-EL35	0.060	
	1		● R	GB2-EL42	0.045	
Extended logo	1		ⓘ G	GB2-EL3361	0.045	
	1		Ⓢ W	GB2-EL3341	0.045	
	1		Ⓡ B	GB2-EL3351	0.045	
	1		Ⓡ R	GB2-EL4322	0.045	
	1		Ⓢ R	GB2-EL4342	0.045	
Flush with clear silica gel	1		○ W	GB2-EP11	0.045	
	1		● B	GB2-EP21	0.045	
	1		● G	GB2-EP31	0.045	
	1		● Y	GB2-EP51	0.045	
	1		● S	GB2-EP61	0.045	
	1	1	● G	GB2-EP35	0.045	
1		● R	GB2-EP42	0.045		

Mushroom head push buttons

Description	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Mushroom φ 40mm	1		● B	GB2-EC21	0.065	
	1		● G	GB2-EC31	0.065	
	1		● Y	GB2-EC51	0.065	
	1		● S	GB2-EC61	0.065	
	1		● R	GB2-EC42	0.065	
Mushroom φ 60mm	1		● B	GB2-ER21	0.070	
	1		● G	GB2-ER31	0.070	
	1		● Y	GB2-ER51	0.070	
	1		● S	GB2-ER61	0.070	
	1		● R	GB2-ER42	0.070	

Emergency stop push buttons

Latching mushroom head “Emergency stop” push buttons (colour red)

Description	Contact		Dia.	Model	Weight (kg)	Dimension
	N/O	N/C				
Push-pull	1		φ 40	GB2-ET21	0.090	
	1		φ 40	GB2-ET31	0.090	
		1	φ 40	GB2-ET42	0.085	
	1	1	φ 40	GB2-ET45	0.100	
Push and turn to release		1	φ 30	GB2-ES442	0.060	
		1	φ 40	GB2-ES542	0.070	
		1	φ 60	GB2-ES642	0.080	
Key release (Ronis n° 455)		1	φ 40	GB2-ES142	0.115	
	1	1	φ 40	GB2-ES145	0.125	



Selector switches

Standard handle

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1		∇	GB2-ED21	0.040	
	1	1	∇	GB2-ED25	0.055	
	1		∇	GB2-ED41	0.040	
	1	1	∇	GB2-ED45	0.055	
3 position	2		∇	GB2-ED33	0.055	
	2		∇	GB2-ED53	0.055	



Long handle

Description	Contact		Locality	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1		∇	GB2-EJ21	0.040	
	1	1	∇	GB2-EJ25	0.055	
	1		∇	GB2-EJ41	0.040	
	1	1	∇	GB2-EJ45	0.055	
3 position	2		∇	GB2-EJ33	0.055	
	2		∇	GB2-EJ53	0.055	



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Keylock switches (Key-return n°455)

Keylock switches

Description	Contact		Dia.	Model	Weight (kg)	Dimension
	N/O	N/C				
2 position	1			GB2-EG21	0.065	
	1	1		GB2-EG25	0.080	
	1			GB2-EG41	0.065	
	1	1		GB2-EG45	0.080	
	1			GB2-EG61	0.065	
	1	1		GB2-EG65	0.080	
3 position	2			GB2-EG33	0.080	
	2			GB2-EG53	0.080	
	2			GB2-EG03	0.080	
	2			GB2-EG73	0.080	

Explain: :Lock up :1 spring return from right to left :Key withdrawal position(s)



Push button with light

Butch haircut push button with light (spring return)

Description	Contact		Colour	Model	Weight (kg)	Dimension
	N/O	N/C				
Directness 6.3V~220V With neon light	1		○ W	GB2-EW3161	0.105	
	1		● G	GB2-EW3361	0.105	
		1	● R	GB2-EW3462	0.105	
	1		● Y	GB2-EW3561	0.105	
	1		● B	GB2-EW3661	0.105	
	1	1	● G	GB2-EW3365	0.120	
Resistance 6.3V~220V With neon light	1		○ W	GB2-EW3171	0.090	
	1		● G	GB2-EW3371	0.090	
		1	● R	GB2-EW3472	0.090	
	1		● Y	GB2-EW3571	0.090	
	1		● B	GB2-EW3671	0.090	
	1	1	● G	GB2-EW3375	0.105	
Through transformer 220V With neon light	1		○ W	GB2-EW3141	0.105	
	1		● G	GB2-EW3341	0.105	
		1	● R	GB2-EW3442	0.105	
	1		● Y	GB2-EW3541	0.105	
	1		● B	GB2-EW3641	0.105	
Through transformer 380V With neon light	1		○ W	GB2-EW3151	0.105	
	1		● G	GB2-EW3351	0.105	
		1	● R	GB2-EW3452	0.105	
	1		● Y	GB2-EW3551	0.105	
	1		● B	GB2-EW3651	0.105	
	1	1	● G	GB2-EW3355	0.120	





Double-headed push buttons, spring return

Description	Contact		Colour	Degree of protection	Model	Dimension
	N/O	N/C				
Without pilot light 1 flush green 2 extended red	1	1	■ ■	IP40	GB2-EL8325	
	1	1	■ ■	IP40	GB2-EL8425	
1 flush green 2 pilot light with yellow lens (220/380V 50Hz supply is through transformer) 3 extended red	1	1	■ ■	IP40	GB2-EW8345	
	1	1	■ ■	IP40	GB2-EW8445	
	1	1	■ ■	IP40	GB2-EW8355	
	1	1	■ ■	IP40	GB2-EW8455	

Pilot light

Description	Scheme	Supply voltage	Colour	Model	Dimension
Direct BA9S with neon light		≤ 380V	○ W	GB2-EV61	
			● G	GB2-EV63	
			● R	GB2-EV64	
			● Y	GB2-EV65	
			● S	GB2-EV66	
Direct through resistor BA9S, 130V with neon light		220/250V	○ W	GB2-EV71	
			● G	GB2-EV73	
			● R	GB2-EV74	
			● Y	GB2-EV75	
			● S	GB2-EV76	
Throught transformer 12V BA9S 6V with neon light		220~240V/50Hz	○ W	GB2-EV41	
			● G	GB2-EV43	
			● R	GB2-EV44	
			● Y	GB2-EV45	
			● S	GB2-EV46	

Economic push button

Description	Contact		Colour	Model	Wight (kg)	Dimension
	N/O	N/C				
Pushbuttons spring return	1		● B	GB2-EA121	0.020	
	1		● G	GB2-EA131	0.020	
		1	● R	GB2-EA142	0.020	
	1	1	● B	GB2-EA125	0.020	
	1	1	● G	GB2-EA135	0.020	
	1	1	● R	GB2-EA145	0.020	

Economic pilot light





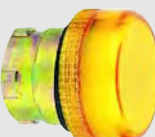

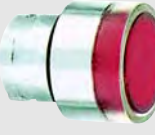




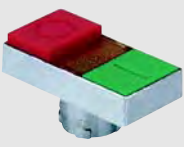
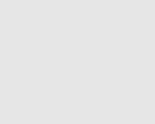
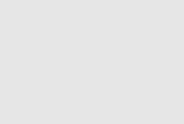
Description	Supply power	Colour	Model	Wight (kg)	Dimension
With LED light (ex bulb)	Direct BA9S lamp not provide < 250V	● G	GB2-EV163	0.015	
		● R	GB2-EV164	0.015	
		● Y	GB2-EV165	0.015	
		● S	GB2-EV166	0.015	

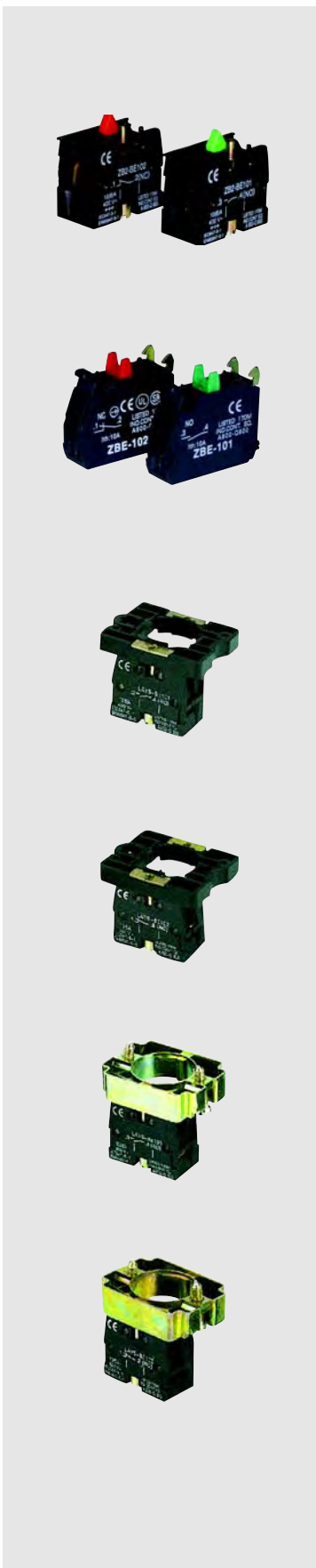
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		Description	Model			Description	Model				
	<p>N/C N/O LED: 6.3V-380V AC.DC</p> <p>Waterproof</p> <p>● ●</p>	<p>GB2F-01DM GB2F-10DM</p>		<p>Two position stay put N/C N/O</p> <p>Lamp voltage LED:6.3V-380V AC.DC</p> <p>● ● ●</p>	<p>GB2F-01DM GB2F-10DM</p>	<p>N/C N/O</p> <p>Lamp voltage LED:6.3V-380V AC.DC</p> <p>● ● ●</p>	<p>GB2F-11X/2 GB2F-20X/3</p>				
								<p>Two position stay put N/O+N/C</p> <p>There position stay put N/O+N/O</p> <p>● ● ●</p>	<p>GB2F-11X/2 GB2F-20X/3</p>	<p>N/C N/O</p> <p>Lamp voltage LED: 6.3V-380V AC.DC</p> <p>Waterproof</p> <p>● ● ● ○</p>	<p>GB2F-11X/2 GB2F-20X/3</p>
								<p>Lamp voltage LED: 6.3V-380V AC.DC</p> <p>● ● ● ○</p>	<p>GB2F-D/S</p>	<p>Automatic replacement according to lock and clockwise running</p> <p>N/O+N/C</p> <p>● ●</p>	<p>GB2F-D/S</p>
								<p>Instant motion N/O+N/C</p> <p>● ●</p>	<p>GB2F-11M</p>	<p>Instant motion N/O+N/C</p> <p>Waterproof</p> <p>● ● ● ● ○</p>	<p>GB2F-11M</p>

Description		Model	Description		Model		
	Flush	○ White	GB2-EA1	Flush	● Black	GB2-EL2	
		● Black	GB2-EA2		● Green	GB2-EL3	
		● Green	GB2-EA3		● Red	GB2-EL4	
		● Red	GB2-EA4		● Yellow	GB2-EL5	
		● Yellow	GB2-EA5		● Blue	GB2-EL6	
		● Blue	GB2-EA6				
	Sign even button	○ Green I	GB2-EA331	Key switch 3-position Return to centre		GB2-EG2	
		● Green II	GB2-EA336			GB2-EG3	
	● White →	GB2-EA334			GB2-EG4		
	● Black ↓	GB2-EA335			GB2-EG5		
	Sign	● Red ○	GB2-EA432				
● Red stop		GB2-EA434					
	Head of indicator Smooth lens Attach diffusion function	○ White	GB2-EV01	Mushroom Head Pushbutton	● Black φ 30	GB2-EC24	
		● Green	GB2-EV03		● Green φ 30	GB2-EC34	
		● Red	GB2-EV04		● Red φ 30	GB2-EC44	
		● Yellow	GB2-EV05				
		● Blue	GB2-EV06				
	Button with lamp Smooth convex type	● Green	GB2-EW13	Push-locked Mushroom Pushbutton	● Black φ 40	GB2-EC2	
		● Red	GB2-EW14		● Green φ 40	GB2-EC3	
		● Yellow	GB2-EW15		● Red φ 40	GB2-EC4	
	Even button preventing from pollution	● Green	GB2-EW33				
		● Red	GB2-EW34				
		● Yellow	GB2-EW35				
	Selector switch 2-positions	● Black	GB2-ED2	Double-head button Even button+convex button	■ Green I	GB2-EL84	
		● Black	GB2-ED3		■ Red ○		
		● Black	GB2-ED4		■ Green I	GB2-EL94	
		● Black	GB2-ED5		□ White ■ Red ○		
	Selector switch 3-positions Return to centre	● Black	GB2-EJ2	Double-head with lamp button Two even buttons	■ Green	GB2-EW83	
		● Black	GB2-EJ3		■ Red		
		● Black	GB2-EJ4		■ Green		GB2-EW84
		● Black	GB2-EJ5		■ Yellow		
					■ Red		

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
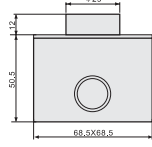


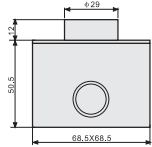


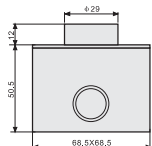


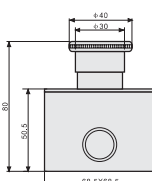


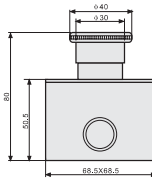
	Description	Model		Description	Model	
	Flush	○ White GB2-BA1		Flush	GB2-BG2	
		● Black GB2-BA2			GB2-BG3	
		● Green GB2-BA3			GB2-BG4	
		● Red GB2-BA4			GB2-BG5	
		● Yellow GB2-BA5				
		● Blue GB2-BA6				
	Sign even button	○ Green I GB2-BA331		Key Mushroom Pushbutton	● Red φ 40 GB2-BS14	
		● Green II GB2-BA336				
		● White → GB2-BA334				
		● Black ↓ GB2-BA335				
		Sign			● Red ○ GB2-BA432	
					● Red stop GB2-BA434	
	Head of indicator Smooth lens Attach diffusion function	○ White GB2-BV01		Mushroom Head Pushbutton	● Black φ 30 GB2-BC24	
		● Green GB2-BV03			● Green φ 30 GB2-BC34	
		● Red GB2-BV04			● Red φ 30 GB2-BC44	
		● Yellow GB2-BV05				
		● Blue GB2-BV06				
	Button with lamp Smooth convex type	● Green GB2-BW13		Push-locked Mushroom Pushbutton	● Black φ 40 GB2-BC2	
		● Red GB2-BW14			● Green φ 40 GB2-BC3	
		● Yellow GB2-BW15			● Red φ 40 GB2-BC4	
	Even button preventing from pollution	● Green GB2-BW33		Double-head button Even button+convex button	● Red φ 30 GB2-BS44	
		● Red GB2-BW34			● Red φ 40 GB2-BS54	
		● Yellow GB2-BW35				
	Selector switch 2-positions 3-positions Return to centre	● Black GB2-BD2		Double-head with lamp button Two even buttons	■ Green I GB2-BL84	
		● Black GB2-BD3			□ White ■ I GB2-BL94	
		● Black GB2-BD4				
		● Black GB2-BD5				
	Selector switch 2-positions 3-positions Return to centre	● Black GB2-BJ2		Double-head with lamp button Two even buttons	■ Green GB2-BW83	
		● Black GB2-BJ3			■ Green GB2-BW84	
		● Black GB2-BJ4				
		● Black GB2-BJ5				



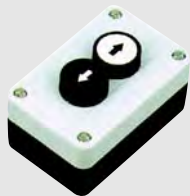
Description	Contact		Colour	Model	Dimension	
	N/O	N/C				
For making up body assemblies with 3, 4, 5 or maximum of 6 contact blocks or replacing 1 st or and contact	1		Green	GB2-BE101		
				ZBE101		
		1	Red	GB2-BE102		
				ZBE102		
	For making up body assemblies with 3, 4, 5 or maximum of 6 contact blocks or replacing 1 st or 2nd contact	1		Green	GB2-EZ101	
		2		Green	GB2-EZ103	
1		1	Green, Red	GB2-EZ105		
		1	Red	GB2-EZ102		
		2	Red	GB2-EZ104		
For making up body assemblies with 3, 4, 5 or maximum of 6 contact blocks or replacing 1 st or 2nd contact		1		Green	GB2-BZ101	
	2		Green	GB2-BZ103		
	1	1	Green, Red	GB2-BZ105		
		1	Red	GB2-BZ102		
		2	Red	GB2-BZ104		

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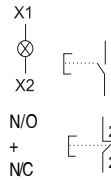
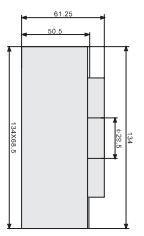

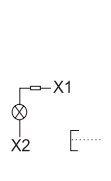
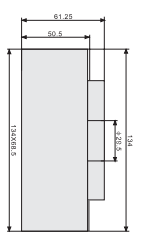

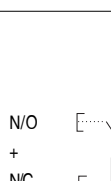
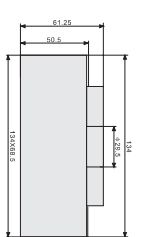

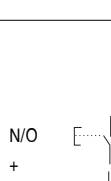
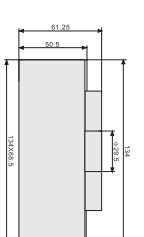


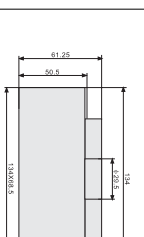
	Description	Model		Description	Model
	Bottom seat of button with lamp Direct Type	GB2-EB063		Bottom seat of button with lamp Direct Type	GB2-BV063
		GB2-EB064			GB2-BV064
		GB2-EB065			GB2-BV065
	Bottom seat of button with lamp Direct Type	GB2-EW061		Bottom seat of button with lamp Direct Type	GB2-BW061
		GB2-EW062			GB2-BW062
		GB2-EW063			GB2-BW063
		GB2-EW064			GB2-BW064
		GB2-EW065			GB2-BW065
	Bottom with lamp install base BA 9s Resistance < 250V	GB2-EW071		Bottom with lamp install base BA 9s Resistance < 250V	GB2-BW071
		GB2-EW072			GB2-BW072
		GB2-EW073			GB2-BW073
		GB2-EW074			GB2-BW074
		GB2-EW075			GB2-BW075
	Bottom with lamp install base BA 9s Resistance < 250V	GB2-EV4		Bottom with lamp install base BA 9s Resistance < 130V	GB2-BV4
		GB2-EW041			GB2-BW041
		GB2-EW042			GB2-BW042
		GB2-EW043			GB2-BW043
		GB2-EW044			GB2-BW044
		GB2-EW045			GB2-BW045
	Bottom with lamp install base BA 9s Resistance < 380V	GB2-EW051		Bottom with lamp install base BA 9s Resistance < 250V	GB2-BW051
		GB2-EW052			GB2-BW052
		GB2-EW053			GB2-BW053
		GB2-EW054			GB2-BW054
		GB2-EW055			GB2-BW055

Description	Scheme	Marking on legend	Marking on push button	Model	Dimension
 1 green flush pushbutton spring return	N/O 	Start	—	GB2-B101H29	
		—	I	GB2-B102	
		—	Start	GB2-B103	
		—	—	GB2-B101	
 1 red flush pushbutton spring return	N/C 	Stop	—	GB2-B111H29	
		—	Stop	GB2-B114	
 1 red projecting pushbutton spring return	N/C 	—	O	GB2-B112	
 1 red mushroom head pushbutton ϕ 40mm, spring return	N/C 	Emergency stop	—	GB2-B164H29	
		—	—	GB2-B164	
 1 red mushroom head pushbutton, ϕ 40mm, latching Turn to release	N/C 		Red	GB2-J174	
		Red	GB2-J174H29		

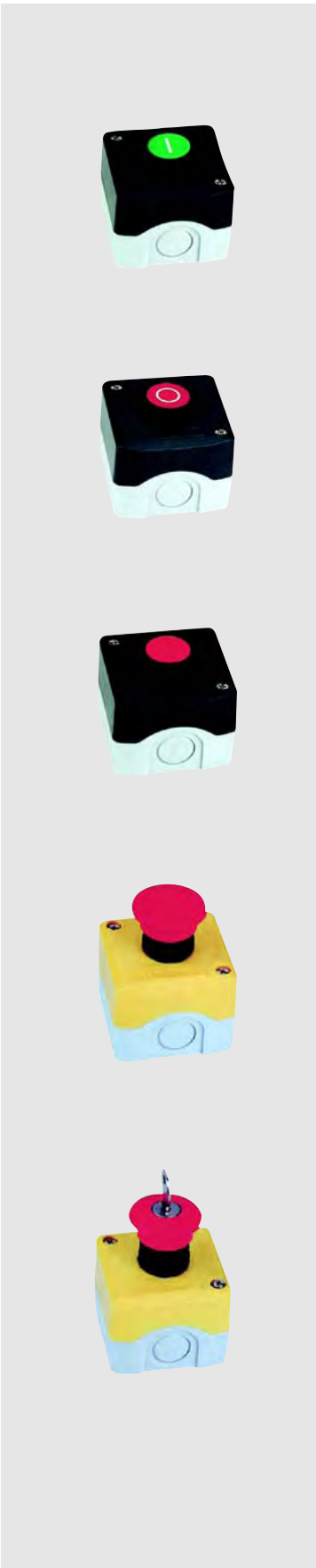
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Description	Scheme	Marking on legend	Marking on push button	Model	Dimension
1 red mushroom head pushbutton, ϕ 40mm, latching Key release (Key n° 455)	N/O 		Red	GB2-J184	
			Red	GB2-J188H29	
1 selector switch 2-position stay put standard black handle	N/C 	Stop Start	—	GB2-B132H29	
			—	GB2-B134H29	
1 selector switch key operated (Ronis Key n° 455) 2-position stay put Key withdraw from left position	N/C 	Stop Start	—	GB2-B142H29	
			—	GB2-B144H29	
2 spring return push button 1 flush green 1 flush red	N/O + NC	Open close	—	GB2-B241H29	
		Stop start	—	GB2-B211H29	
			—	GB2-B213	
		—	Stop Start	GB2-B215	
2 spring return pushbutton 1 flush black (white arrow)	N/O + NC	—		GB2-B222	
		—		GB2-B223	

Description	Scheme	Markrking on legend	Marking on push button	Model	Dimension
 <p>1 red pilot light, Dirct supplied < 130V Bulb not supplied+ 2 spring return pushbuttons 1 flush green 1 flush red</p>		Stop	—	GB2-B361H29	
		Start	○ 	GB2-B363	
		—	Stop	GB2-B366	
		Start	—		
 <p>1 red pilot light, 220/250V Supply direct through resistor BA9S-130V bulb supplied 2 spring return pushbuttons 1 flush red 1 flush green</p>		Stop	—	GB2-B371H29	
		Start	○ 	GB2-B373	
		—	Stop	GB2-B376	
		Start	—		
 <p>3 spring return pushbuttons 1 flush green 1 flush red 1 flush green</p>		Open	—	GB2-B341H29	
		Stop	—		
		Close	—		
		Froward	—	GB2-B311H29	
		Stop	—		
		Reverse	—	GB2-B331H29	
Right	≡				
Stop	—				
Left	≡				
 <p>3 spring return pushbuttons 1 flush green (black arrow) 1 flush red 1 flush black (white aarrow)</p>		≡	↑ ○ ↓	GB2-B324	
		≡	↑ ○ ↓	GB2-B334	
		≡	—		
		≡	—		
 <p>3 spring return pushbuttons 1 flush green 1 flush red 1 flush green</p>		≡	○ ○	GB2-B339	
		Up	≡	GB2-B321H29	
		Stop	≡		
		Down	≡		

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Start or Stop Function (light grey base, RAL 7035; dark grey lid, RAL 7016)

Description	Type of push	Type of contact		Legend marking	Catalog number
		N/O	N/C		

Marking on Legend Holder

1 momentary push button	Flush black	1	-	Start	GB5D101
	Flush red	-	1	Stop	GB5D111

Marking on Legend Holder

1 mushroom head push button φ 40 mm, momentary	Red	-	1	Emergency stop	GB5D164
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Emergency Stop Function (light grey base, RAL 7035; yellow lid, RAL 1012)

Description	Type	Type of contact		Catalog number
		N/O	N/C	

1 Mushroom head push button φ 40mm, red Turn to release	Standard	-	1	GB5K174
	Trigger action	-	1	GB5K178
1 Mushroom head push button φ 40mm, red Key release (Key No. 455)	Standard	-	1	GB5K184
	Trigger action	-	1	GB5K188
1 Mushroom head push button φ 40mm, red Push-pull	Standard	-	1	GB5K194



Start-Stop Function (light grey base, RAL 7035; dark grey lid, RAL 7016)

Description	Type of push	Type of contact		Legend text	Catalog number
		N/O	N/C		
Text on legend plate					
2 Momentary push buttons	1 flush black	1	-	Start	GB5D211
	1 flush red	-	1	Stop	
	1 flush black	1	-	Forward	GB5D221
	1 flush black	1	-	Reverse	

Three Function (light grey base, RAL 7035; dark grey lid, RAL 7016)

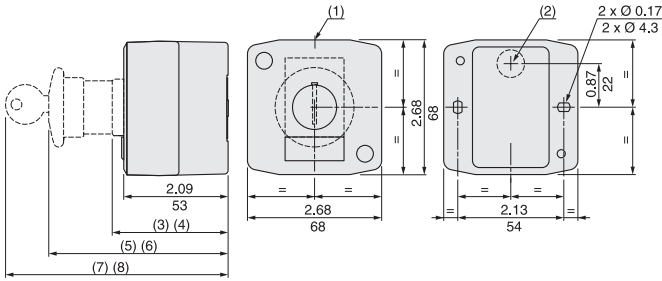
Description	Type of push	Type of contact		Legend text	Catalog number	
		N/O	N/C			
Text on legend plates						
3 Momentary push buttons	1 flush black	1	-	Open	GB5D341	
	1 flush red	-	1	Stop		
	1 flush black	1	-	Close		
			1	-	Forward	GB5D311
			-	1	Stop	
			1	-	Reverse	
			1	-	Up	GB5D321
			-	1	Stop	
		1	-	Down		

Empty Enclosures

Description	Number of holes	Catalog number
For normal environments, CSA+ UL approvals (with stainless steel lid mounting screws)		
Light grey base "RAL 7035"	1	GB5D01
Dark grey lid "RAL 7016"	2	GB5D02
	3	GB5D03
	4	GB5D04
	5	GB5D05
Light grey base "RAL 7035" Yellow lid "RAL 1012"	1	GB5K01

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Single-way control stations GB5-D1, K1, D01

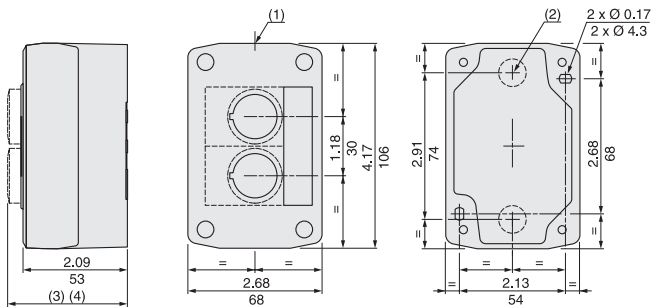


- (1) 2 knock-outs for PG 13.5 cable glands, maximum capacity 0.47 in (12 mm).
- (2) Knock-out for cable entry, maximum capacity 0.55 in (14 mm).

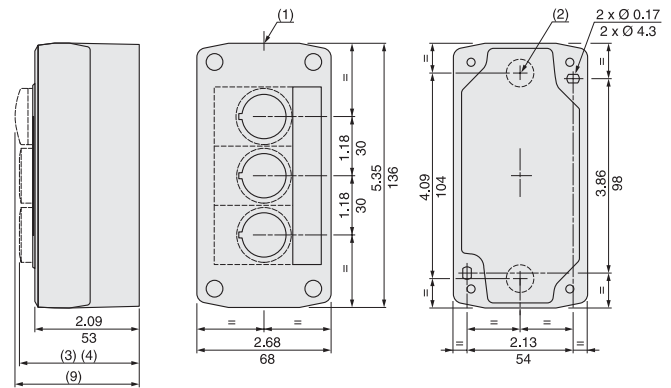
Examples:

- (3) 2.44 in (62 mm) for flush push buttons.
- (4) 2.59 in (66 mm) for projecting push buttons.
- (5) 3.58 in (91 mm) for latching mushroom head push buttons.
- (6) 2.91 in (74 mm) for key switches.
- (7) 4.45 in (113 mm) for latching mushroom head push buttons with key release.
- (8) 3.78 in (96 mm) for key switches with key.
- (9) 2.52 in (64 mm) for pilot lights.

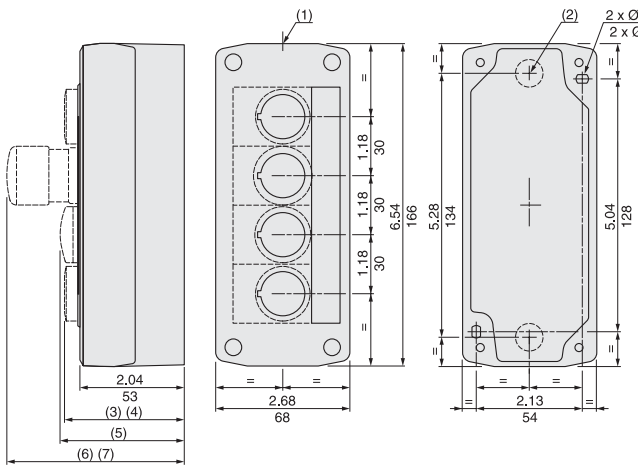
Two-way control stations GB5-D2, K2, D 02



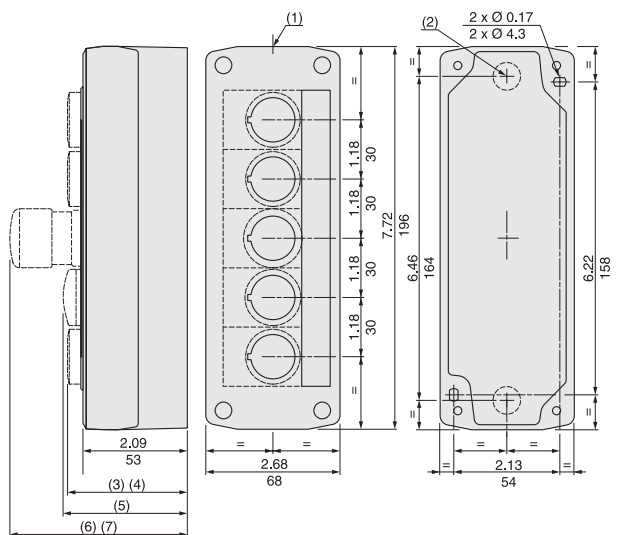
Three-way control stations GB5-D3, K3, D03



Four-way control stations GB5-D4, K4, D04



Five-way control stations GB5-D5, K5, D05



- (1) 2 knock-outs for PG 13.5 cable glands, maximum capacity 0.47 in (12 mm).
- (2) Knock-out for cable entry, maximum capacity 0.55 in (14 mm).

Examples:

- (3) 2.44 in (62 mm) for flush push buttons.
- (4) 2.59 in (66 mm) for projecting push buttons.
- (5) 2.52 in (64 mm) for pilot lights.
- (6) 3.43 in (87 mm) for mushroom head push buttons.
- (7) 3.07 in (78 mm) for selector switches.

Dual Dimensions $\frac{\text{inches}}{\text{mm}}$

AD26B series pilot light

2

Model	Description	Colour	Voltage	Dimension
AD26B-16D	φ 16 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC220V AC380V	
AD26B-16D/S	φ 16 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V	
AD26B-16C	φ 16 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC220V AC380V	
AD26B-22A	φ 22 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC220V AC380V	
AD26B-22/25B	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V FD380V FD500V	
AD26B-22/25B/S	φ 22/25 Super-short type pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V	



Model	Description	Colour	Voltage	Dimension
AD26B-22/25C	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V FD380V FD500V	
AD26B-22/25C/S	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V	
AD26B-22/25D	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V FD380V FD500V	
AD26B-22/25D/S	φ 22/25 Super-short type pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V	
AD26B-22/25E	φ 22/25 pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V FD380V FD500V	
AD26B-22/25E/S	φ 22/25 Super-short type pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V	

AD26B series pilot light

2

Reference	Description	Colour	Voltage	Dimension
AD26B-22H	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V FD380V FD500V	
AD26B-22H/S	φ 22/25 pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V	
AD26B-22/25	φ 22/25 Round double-color light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25B/HL	φ 22/25 Flashing pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25C/HL	φ 22/25 Flashing pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	

2



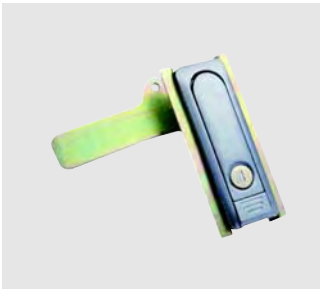
Reference	Description	Colour	Voltage	Dimension
AD26B-22/25D/HL	φ 22/25 Flashing pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25E/HL	φ 22/25 Flashing pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22H/HL	φ 22/25 Flashing pilot light	R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC110V AC220V AC380V FD380V FD500V	
AD26B-22/25MC	φ 22/25 Longtime buzzer	R G Y B W	AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25MJ	φ 22/25 Intermittent buzzer	R G Y B W	AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	

AD26B series pilot light

2

Reference	Description	Colour	Voltage	Dimension
AD26B-22B/K	φ 22/25 Interference resistant pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25C/K	φ 22/25 Interference resistant pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25D/K	φ 22/25 Intermittent buzzer pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25E/K	φ 22/25 Intermittent buzzer pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	
AD26B-22/25H/K	φ 22/25 Intermittent buzzer pilot light	R G Y B W	AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V AC110V AC220V AC380V	

Reference	Description	Colour	Voltage	Dimension
AD26C-6		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	
AD26C-8		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	
AD26C-10		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	
AD26C-12		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	
AD26C-14		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	
AD26C-16		R G Y B W	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC48V AC/DC110V AC/DC220V	



AB102



AB301



AB401



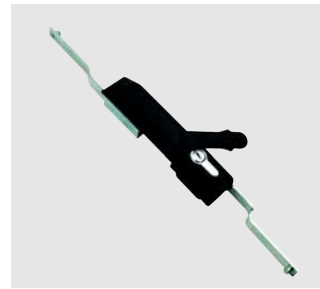
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AB403



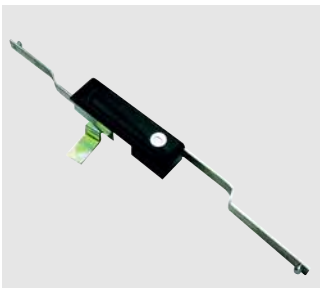
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MS103



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MS103-3-1



MS103C-1



MS103D-1



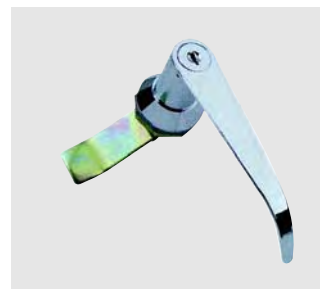
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MS104B



MS104C



MS301



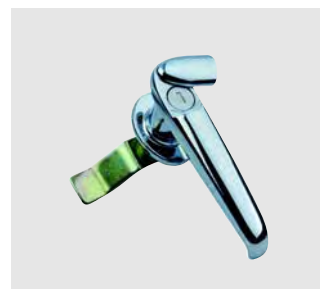
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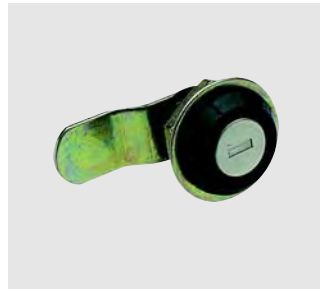
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MS403



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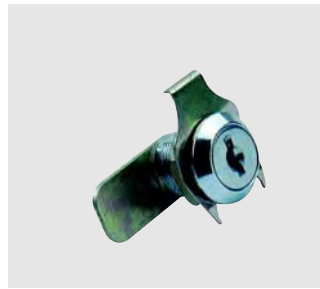
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MS409



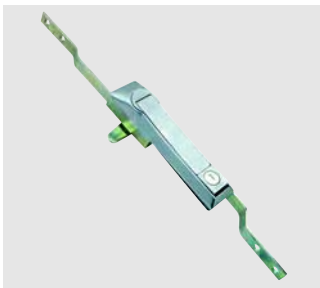
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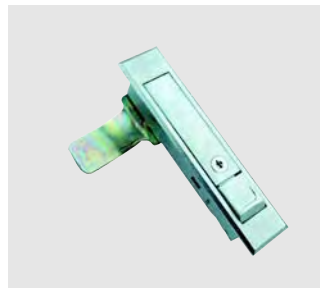
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MS460



MS480



MS502-1-1



MS502-2



MS504



MS505



MS603



MS606



MS607



MS611



MS705



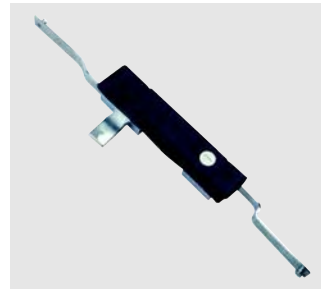
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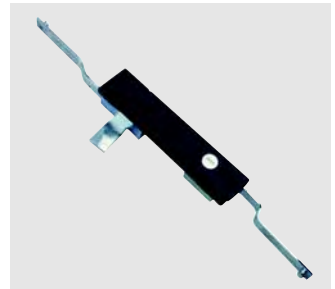
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MS732



MS741



MS742



MS751



MS820



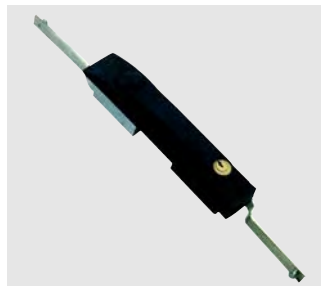
MS822



MS823



MS824



MS825



MS-A-172-1



MS238



GCS



GGD



A19



A45



A2055



A99



DKS



ABB100-3