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## Control and signalling units XA2-B

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# Control and signalling units Ø 22

## Characteristics

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### Environment

<b>Conformity to standards</b>	IEC 337-1, IEC 337-2, NF C 63140, ASE 0119, ASE 1003, BS 4794, VDE 0660-200, UL 508, CSA C 22-2 n°14
<b>Approvals</b>	Standard version : CSA, UL : pushbuttons and selector switches A 600-Q600 Direct supply pilot lights and illuminated pushbuttons (120 V max) Transformer pilot lights and illuminated pushbuttons (110/6 V and 220/6 V) ASE, DEMKO, NEMKO, SEMKO, SÄHKÖTARKASTUSKESKUS.
<b>Protective treatment</b>	TC "all climates".
<b>Ambient temperature</b>	Operating : from -25°C to + 70°C. Storage : from -40°C to + 70°C.
<b>Resistance to vibration</b>	Ø 60 mm mushroom head : 8 g. Other pushbuttons : 15 g. Transformer pilot lights : 4 g (40 HZ < frequency < 500 HZ) conforming to IEC 68-2-6
<b>Resistance to shock</b>	Pushbuttons : 70 g. Mushroom head pushbuttons : 15 g. Selector switches : 200 g. Conforming to IEC 68-2-27.
<b>Electric shock protection</b>	Class II, conforming to IEC 536 and NF C 20-030 (double-insulated)
<b>Degree of protection</b>	IP65 conforming to IEC 529 and NF C 20-010
<b>Mechanical life</b>	1 million operations (except, latching mushroom head pushbuttons : 300 000 operations, illuminated selector switches : 100 000 operations).

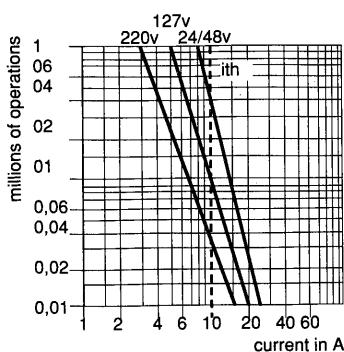
### Contact block characteristics

<b>Rated thermal current</b>	10 A conforming to IEC 337-1, NF C 63140, UL 508, CSA C 22-2 n° 14, VDE 0660-200
<b>Rated insulation voltage</b>	500 V conforming to NF C 20-040, VDE 0110, IEC 158-1. 600 V conforming to UL 508 and CSA C 22-2 n° 14
<b>Insulation category</b>	Groupe C conforming to NF C 20-040 and VDE 0110
<b>Contact operation</b>	Slow break N/C or N/O
<b>Operating force</b>	Flush and projecting pushbuttons with 1 N/O contact : 1 daN, with 1 N/C contact : 0,8 daN For each supplementary contact : N/O = + 0,5 daN, N/C = + 0,3 daN
<b>Terminal marking</b>	Conforming to CENELEC EN 50013
<b>Short-circuit protection</b>	10 A gl cartridge fuse, conforming to IEC 269-1 (1986) and IEC 269-2 (1986)


**Rated power**  
conforming to IEC 337 -1  
duty categories AC11 and DC11

Operating rate :  
3600 operations/hour  
Load factor : 0,5

**Alternating current (ac) 50-60HZ**  
Inductive circuit 



**Direct current (dc)**  
Power broken  
for 1 million operations

<b>Voltage V</b>	24	48	12
 <b>W</b>	65	48	40

**Cabling** Screw and captive cable clamp terminals. Capacity : min 1 X 0,5 mm<sup>2</sup>, max, with or without cable ends : 2 X 1,5 mm<sup>2</sup> or 1 X 2,5 mm<sup>2</sup> or connection by clips conforming to NF C 20-120 (available on request).

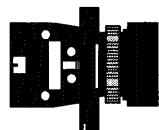
# Control units Ø 22

circular head, insulated bezel

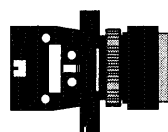
## Complete units

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### Spring return pushbuttons



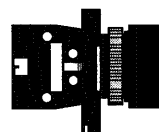
XA2.BA.



XA2.BL42



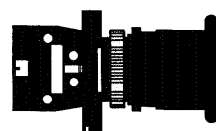
XA2.BC42



XA2.BA3...



XA2.BL4...



XA2.BT..



XA2.BS54..



XA2.BS9445



Description	Contact	Diagram	Colour	Reference	Weight kg
Flush	N/O		Black	<b>XA2-BA21</b>	0,035
			Green	<b>XA2-BA31</b>	0,035
	N/C		Red	<b>XA2-BA42</b>	0,035
			N/C + N/O		Black
Green	<b>XA2-BA35</b>	0,050			
Red	<b>XA2-BA45</b>	0,050			
Projecting	N/C		Red	<b>XA2-BL42</b>	0,035
Mushroom head pushbutton Ø 40 mm	N/C		Red	<b>XA2-BC42</b>	0,050

### Spring return pushbuttons with marked operating head

Description	Contact	Diagram	Colour	Marking	Reference	Weight kg
Flush	N/O		Green	I	<b>XA2-BA3311</b>	0,035
			Green	I	<b>XA2-BA3315</b>	0,035
Projecting	N/C		Red	O	<b>XA2-BL4322</b>	0,035
			N/C + N/O		Red	O

### "Emergency stop" latching mushroom head pushbuttons

Description	Contact	Diagram	Colour	Reference	Weight kg
Mushroom head pushbutton Ø 40 mm "Push-Pull"	N/C		Red	<b>XA2-BT42</b>	0,070
	N/C + N/O		Red	<b>XA2-BT45</b>	0,085
Mushroom head pushbutton Ø 40 mm Turn to release	N/C		Red	<b>XA2-BS542</b>	0,070
	N/C + N/O		Red	<b>XA2-BS545</b>	0,085
Mushroom head pushbutton Ø 40 mm Key release	N/C		Red	<b>XA2-BS142</b>	0,090
	N/C + N/O		Red	<b>XA2-BS145</b>	0,105
Trigger action mushroom head pushbutton Ø 40 mm Key release, Ronis key n° 455	N/C + N/O		Red	<b>XA2-BS9445</b>	0,105

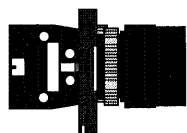
# Control and signalling units Ø 22

circular head, insulated bezel

Complete units

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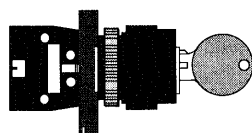
## Selector switches



XA2.BD..

Description	Contact	Diagram	Operator	Reference	Weight kg
2 fixed positions	N/O		Long handle	XA2-BD21	0,040
	N/C + N/O		Long handle	XA2-BD25	0,055
3 fixed positions	N/O + N/O		Long handle	XA2-BD33	0,055

## Selector switches with keyswitch operating head (key n° 455)



XA2.BG..

Description	Contact	Diagram	Key withdrawal	Reference	Weight kg
2 fixed positions	N/O		left hand position	XA2-BG21	0,065
	N/C + N/O		left hand position	XA2-BG25	0,080
3 fixed positions	N/O + N/O		centre position	XA2-BG33	0,080

## Pilot lights



XA2.BV6..

Supply	Diagram	Colour	Reference	Weight kg
Direct ≤ 380 V bulb not supplied (1)		Green	XA2-BV63	0,040
		Red	XA2-BV64	0,040
		Clear	XA2-BV67	0,040
Direct through resistor 220/250 V bulb BA9S-130 V not supplied		Green	XA2-BV73	0,045
		Red	XA2-BV74	0,045
		Clear	XA2-BV77	0,045

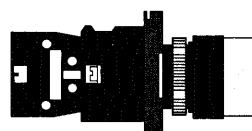
## Illuminated flush pushbuttons



XA2.BV7..



XA2.BW..6..



XA2.BW..7..

Supply	Contact	Diagram	Colour	Reference	Weight kg
Direct ≤ 380 V bulb not supplied (1)	N/O		Green	XA2-BW3361	0,055
				XA2-BW3761	0,055
N/C			Red	XA2-BW3462	0,055
N/C + N/O			Green	XA2-BW3365	0,070
			Red	XA2-BW3465	0,070
			Clear	XA2-BW3765	0,070
Direct through resistor 220-250 V bulb BA9S-130 V supplied	N/O		Green	XA2-BW3371	0,060
			Clear	XA2-BW3771	0,060
N/C			Red	XA2-BW3472	0,060
N/C + N/O			Green	XA2-BW3375	0,075
			Red	XA2-BW3475	0,075
			Clear	XA2-BW3775	0,075

(1) Type of bulb to be used for direct supply : incandescent bulb, BA9S base fitting, U ≤ 130 V, or neon 110 V, 220 V or 380 V (DL1-C... see page 502-18)

# Control units Ø 22

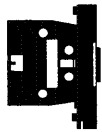
circular head, insulated bezel

Adaptable sub-assemblies

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## Complete bodies with 1 contact block, screw and captive clamp connection

Description	Contact	Diagram	Type	Reference	Weight kg
For pushbuttons and 2 position selector switches	N/O		Standard	<b>ZA2-BZ101</b>	0,020
			For low currents	<b>ZA2-BZ1016</b>	0,020
	N/C		Standard	<b>ZA2-BZ102</b>	0,020
			For low currents	<b>ZA2-BZ1026</b>	0,020



ZA2.BZ101

## Complete bodies with 1 contact block, screw and captive clamp connection

Description	Contact	Diagram	Type	Référence	Weight kg
For pushbuttons and 2 or 3 position selector switches	N/O + N/O		Standard	<b>ZA2-BZ103</b>	0,035
			For low currents	<b>ZA2-BZ1036</b>	0,035
	N/C + N/C		Standard	<b>ZA2-BZ104</b>	0,035
			For low currents	<b>ZA2-BZ1046</b>	0,035
	N/C + N/O		Standard	<b>ZA2-BZ105</b>	0,035
			For low currents	<b>ZA2-BZ1056</b>	0,035
<b>Make before break contacts</b>					
	N/O + N/C		Standard	<b>ZA2-BZ106</b>	0,035
			For low currents	<b>ZA2-BZ1066</b>	0,035
<b>Offset contacts</b>					
	N/O + N/O		Standard	<b>ZA2-BZ107</b>	0,035
			For low currents	<b>ZA2-BZ1076</b>	0,035



ZA2.BZ105

## Additional contact blocks, screw and captive cable clamp connection

Description	Contact	Diagram	Type	Reference	Weight kg
For converting body/contact assemblies to 3, 4, 5 or 6 contacts maximum	N/O		Standard	<b>ZB2-BE101</b>	0,015
			For low currents	<b>ZB2-BE1016</b>	0,015
or replacing 1st or 2nd contact blocks	N/C		Standard	<b>ZB2-BE102</b>	0,015
			For low currents	<b>ZB2-BE1026</b>	0,015



ZB2.BE101.

Other versions

Complete bodies and supplementary contact blocks for 6,3 mm clip connection  
(conforming to NF C 20-120) See page 502-22.

# Control units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

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## Operating heads for spring return pushbuttons

Description	Colour	Reference	Weight kg
<b>Flush</b>	White	<b>ZA2-BA1</b>	0,015
	Black	<b>ZA2-BA2</b>	0,015
	Green	<b>ZA2-BA3</b>	0,015
	Red	<b>ZA2-BA4</b>	0,015
	Yellow	<b>ZA2-BA5</b>	0,015
	Blue	<b>ZA2-BA6</b>	0,015
<b>Flush transparent</b> For use with circular legend plate ZB2-BY1*** (See page 502-18)	Green	<b>ZA2-BA38</b>	0,015
	Red	<b>ZA2-BA48</b>	0,015
	Yellow	<b>ZA2-BA58</b>	0,015
	Blue	<b>ZA2-BA68</b>	0,015
<b>Flush with full guard</b>	Black	<b>ZA2-BA24</b>	0,015
	Green	<b>ZA2-BA34</b>	0,015
	Red	<b>ZA2-BA44</b>	0,015
	Yellow	<b>ZA2-BA54</b>	0,015
	Blue	<b>ZA2-BA64</b>	0,015
<b>Flush with half guard</b>	Black	<b>ZA2-BA22</b>	0,015
	Green	<b>ZA2-BA32</b>	0,015
	Red	<b>ZA2-BA42</b>	0,015
	Yellow	<b>ZA2-BA52</b>	0,015
	Blue	<b>ZA2-BA62</b>	0,015
<b>Projecting</b>	White	<b>ZA2-BL1</b>	0,015
	Black	<b>ZA2-BL2</b>	0,015
	Green	<b>ZA2-BL3</b>	0,015
	Red	<b>ZA2-BL4</b>	0,015
	Yellow	<b>ZA2-BL5</b>	0,015
	Blue	<b>ZA2-BL6</b>	0,015
<b>Booted</b> (silicon sealing boot)	Black	<b>ZA2-BP2</b>	0,015
	Green	<b>ZA2-BP3</b>	0,015
	Red	<b>ZA2-BP4</b>	0,015
	Yellow	<b>ZA2-BP5</b>	0,015
	Blue	<b>ZA2-BP6</b>	0,015
<b>Booted</b> (neoprene sealing boot)	Black	<b>ZA2-BP02</b>	0,015
	Green	<b>ZA2-BP03</b>	0,015
	Red	<b>ZA2-BP04</b>	0,015
	Yellow	<b>ZA2-BP05</b>	0,015
	Blue	<b>ZA2-BP06</b>	0,015



ZA2.BA.1



ZA2.BA.8



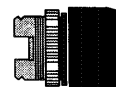
ZA2.BA.4



ZA2.BA.2



ZA2.BL.



ZA2.BP.

# Control units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

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## Operating heads for spring return pushbuttons



ZA2.BA.



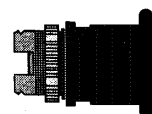
ZA2.BA331



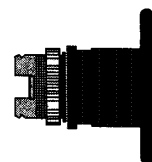
ZA2.BA434



ZA2.BC.4



ZA2.BC3



ZA2.BR.



ZA2.BB.

Description	Marking	Colour	Reference	Weight kg	
Flush with function marked on the operator	I	Green	ZA2-BA331	0,015	
	II	Green	ZA2-BA336	0,015	
	III	Green	ZA2-BA337	0,015	
	IV	Green	ZA2-BA338	0,015	
	Start	Green	ZA2-BA333	0,015	
	On	Green	ZA2-BA341	0,015	
	Marche	Green	ZA2-BA342	0,015	
	O	Red	ZA2-BA432	0,015	
	Arrêt	Red	ZA2-BA433	0,015	
	Stop	Red	ZA2-BA434	0,015	
	Off	Red	ZA2-BA435	0,015	
			White	ZA2-BA334	0,015
			Black	ZA2-BA335	0,015
			White	ZA2-BA332	0,015
		Black	ZA2-BA339	0,015	
Projecting with function marked on the operator	O	Red	ZA2-BL432	0,015	
	Arrêt	Red	ZA2-BL433	0,015	
	Stop	Red	ZA2-BL434	0,015	
	Off	Red	ZA2-BL435	0,015	
Mushroom head pushbutton	Ø 30 mm	Black	ZA2-BC24	0,020	
		Green	ZA2-BC34	0,020	
		Red	ZA2-BC44	0,020	
		Yellow	ZA2-BC54	0,020	
		Blue	ZA2-BC64	0,020	
		Black	ZA2-BC2	0,030	
	Ø 40 mm	Green	ZA2-BC3	0,030	
		Red	ZA2-BC4	0,030	
		Yellow	ZA2-BC5	0,030	
		Blue	ZA2-BC6	0,030	
		Black	ZA2-BR2	0,040	
		Red	ZA2-BR4	0,040	
Wobblestick	Operation in all directions	For fast stopping	Black	ZA2-BB2	0,060
			Red	ZA2-BB4	0,060

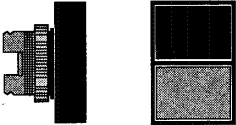
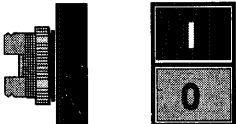

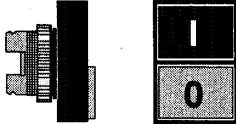
# Control units Ø 22

with insulated bezel

Adaptable sub-assemblies

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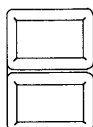
## Double headed pushbutton operators (1)

Description	Colour of operators	Marking	Reference	Weight kg
 <b>ZA2.BA8134</b>	Black Red	Unmarked	<b>ZA2-BA8124</b>	0,030
		Marked "I" "O"	<b>ZA2-BA8224</b>	0,030
	Green Red	Unmarked	<b>ZA2-BA8134</b>	0,030
		Marked "I" "O"	<b>ZA2-BA8234</b>	0,030
	Black Black	Unmarked	<b>ZA2-BA8122</b>	0,030
	Green Green	Unmarked	<b>ZA2-BA8133</b>	0,030
 <b>ZA2.BA8234</b>	Black Red	Unmarked	<b>ZA2-BA9124</b>	0,030
		Marked "I" "O"	<b>ZA2-BA9224</b>	0,030
	Green Red	Unmarked	<b>ZA2-BA9134</b>	0,030
		Marked "I" "O"	<b>ZA2-BA9234</b>	0,030
	Black Black	Unmarked	<b>ZA2-BA9122</b>	0,030
	Green Green	Unmarked	<b>ZA2-BA9133</b>	0,030
 <b>ZA2.BL8334</b>	Black Red	Unmarked	<b>ZA2-BL8324</b>	0,030
		Marked "I" "O"	<b>ZA2-BL8424</b>	0,030
	Green Red	Unmarked	<b>ZA2-BL8334</b>	0,030
		Marked "I" "O"	<b>ZA2-BL8434</b>	0,030
	Black Red	Unmarked	<b>ZA2-BL9324</b>	0,030
		Marked "I" "O"	<b>ZA2-BL9424</b>	0,030
 <b>ZA2.BL9434</b>	Green Red	Unmarked	<b>ZA2-BL9334</b>	0,030
		Marked "I" "O"	<b>ZA2-BL9434</b>	0,030

(1) Assembly with 2 contact body, type ZA2-BZ1.. (see pages 502-05 and 502-22)

<b>Sealing boots</b> Degree of protection IP68	Clear silicon	<b>ZB2-BA008</b>	0,004
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**Other versions** Other operator colours  
See page 502-24



**ZB2-BA008**

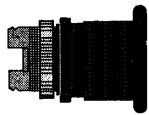
# Control units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-20

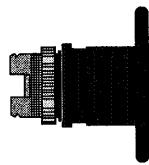
## Operating heads for latching pushbuttons



ZA2.BT4



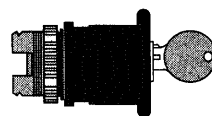
ZA2.BS44



ZA2.BS64



ZA2.BS74



ZA2.BS14

Description		Colour	Reference	Weight kg
<b>Mushroom head pushbutton</b> Push-Pull	Ø 40 mm	Black	<b>ZA2-BT2</b>	0,050
		Red	<b>ZA2-BT4</b>	0,050
	Ø 60 mm	Black	<b>ZA2-BX2</b>	0,060
		Red	<b>ZA2-BX4</b>	0,060
<b>Mushroom head pushbutton</b> Turn to release	Ø 30 mm	Black	<b>ZA2-BS42</b>	0,040
		Red	<b>ZA2-BS44</b>	0,040
	Ø 40 mm	Black	<b>ZA2-BS52</b>	0,050
		Red	<b>ZA2-BS54</b>	0,050
	Ø 60 mm	Black	<b>ZA2-BS62</b>	0,060
		Red	<b>ZA2-BS64</b>	0,060
<b>Mushroom head pushbutton</b> Key release by Ronis key n° 455	Ø 30 mm	Black	<b>ZA2-BS72</b>	0,060
		Red	<b>ZA2-BS74</b>	0,060
	Ø 40 mm	Black	<b>ZA2-BS12</b>	0,070
		Red	<b>ZA2-BS14</b>	0,070
	Ø 60 mm	Black	<b>ZA2-BS22</b>	0,080
		Red	<b>ZA2-BS24</b>	0,080

## Operating heads for trigger action latching pushbuttons



ZA2.BS834



ZA2.BS944

Description				
<b>Mushroom head pushbutton</b> Turn to release	Ø 30 mm	Red	<b>ZA2-BS834</b>	0,040
		Red	<b>ZA2-BS844</b>	0,050
<b>Mushroom head pushbutton</b> Key release by Ronis key n° 455	Ø 30 mm	Red	<b>ZA2-BS934</b>	0,060
		Red	<b>ZA2-BS944</b>	0,070

Other versions

Operating heads with other pushbutton colours  
Key release mushroom head pushbuttons with other key numbers  
See page 502-23

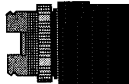

# Control units Ø 22

circular head, insulated bezel

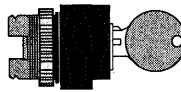
Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

## Operating heads for selector switches

Description	Positions	Operator	Reference	Weight kg	
 <b>ZA2.BD.</b>	2 positions	fixed	Standard handle	<b>ZA2-BD2</b>	0,020
			Long handle	<b>ZA2-BJ2</b>	0,025
			Knurdled knob	<b>ZA2-BD29</b>	0,025
	1 spring return from right to left		Standard handle	<b>ZA2-BD4</b>	0,020
			Long handle	<b>ZA2-BJ4</b>	0,025
			Knurdled knob	<b>ZA2-BD49</b>	0,025
 <b>ZA2.BJ.</b>	3 positions	fixed	Standard handle	<b>ZA2-BD3</b>	0,020
			Long handle	<b>ZA2-BJ3</b>	0,025
			Knurdled knob	<b>ZA2-BD39</b>	0,025
	2 spring return to centre		Standard handle	<b>ZA2-BD5</b>	0,020
			Long handle	<b>ZA2-BJ5</b>	0,025
			Knurdled knob	<b>ZA2-BD59</b>	0,025
	1 spring return to centre		Standard handle	<b>ZA2-BD8</b>	0,020
			Long handle	<b>ZA2-BJ8</b>	0,025
			Knurdled knob	<b>ZA2-BD89</b>	0,025
	1 spring return from left to centre		Standard handle	<b>ZA2-BD7</b>	0,020
			Long handle	<b>ZA2-BJ7</b>	0,025
			Knurdled knob	<b>ZA2-BD79</b>	0,025

## Operating heads for key operated selectors switches (Key n° 455)

Description	Positions	Key withdrawal	Reference	Weight kg	
 <b>ZA2.BG.</b>	2 positions	fixed	Left hand position	<b>ZA2-BG2</b>	0,045
			Left and right hand position	<b>ZA2-BG4</b>	0,045
	1 spring return from right to left		Left hand position	<b>ZA2-BG6</b>	0,045
			3 positions	fixed	Centre position
Left and right hand position	<b>ZA2-BG5</b>	0,045			
Left hand position	<b>ZA2-BG9</b>	0,045			
Right hand position	<b>ZA2-BG09</b>	0,045			
In all 3 positions	<b>ZA2-BG0</b>	0,045			
2 spring return to centre		Centre position	<b>ZA2-BG7</b>	0,045	
1 spring return from left to centre		Right hand position	<b>ZA2-BG1</b>	0,045	
1 spring return from right to centre		Centre position	<b>ZA2-BG8</b>	0,045	
		Left hand position	<b>ZA2-BG08</b>	0,045	

Other versions

Key operated selector switches with other key numbers  
See page 502-25

# Signalling units Ø 22

circular head

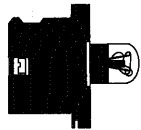
Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

## Pilot light bodies, screw and captive cable clamp connection



ZA2.BV6



ZA2.BV7



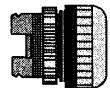
ZA2-BV4



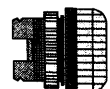
ZA2-BV156



ZA2.BV157



ZA2.BV0



ZA2.BV0.3

Supply	Diagram	Supply voltage	Reference	Weight kg
<b>Direct</b> bulb not supplied (1)		≤ 380 V	<b>ZA2-BV6</b>	0,025
<b>With resistor</b> bulb BA9S-130 V supplied		220/250 V	<b>ZA2-BV7</b>	0,030
<b>Via integral transformer 1,2 VA</b> bulb BA9S-6 V supplied		110 V : 50 HZ	<b>ZA2-BV3</b>	0,090
		110-120 V : 60 HZ		
		220 V : 50 HZ	<b>ZA2-BV4</b>	0,090
		240 V : 50 HZ	<b>ZA2-BV94</b>	0,090
		220-240 V : 60 HZ		
		380 V : 50 HZ	<b>ZA2-BV5</b>	0,090
		440-480 V : 60 HZ	<b>ZA2-BV95</b>	0,090

## Pilot light bodies with "test" facility, screw and captive cable clamp connection

Supply	Diagram	Supply voltage	Reference	Weight kg
<b>Direct</b> bulb not supplied (1)		≤ 380 V	<b>ZA2-BV156</b>	0,030
<b>With resistor</b> bulb BA9S-130 V supplied		220/250 V	<b>ZA2-BV157</b>	0,035

(1) Type of bulb to use for direct supply : incandescent bulbs, BA9S base fitting , U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C\*\*\* see page 502-18)

## Operating heads for pilot lights

Description	Colour		
<b>For incandescent bulbs</b>	White	<b>ZA2-BV01</b>	0,015
	Green	<b>ZA2-BV03</b>	0,015
	Red	<b>ZA2-BV04</b>	0,015
	Yellow	<b>ZA2-BV05</b>	0,015
	Blue	<b>ZA2-BV06</b>	0,015
	Clear	<b>ZA2-BV07</b>	0,015
	<b>For neon bulbs</b>	Green	<b>ZA2-BV033</b>
Red		<b>ZA2-BV043</b>	0,010
Yellow		<b>ZA2-BV053</b>	0,010
Blue		<b>ZA2-BV063</b>	0,010
Clear		<b>ZA2-BV073</b>	0,010

### Other versions

ZA2-BV body with transformer 24 V (50-60 HZ),  
48 V (50-60HZ), // 500 V (50 HZ), 550/600 V (60 HZ)  
Bodies with 6,3 mm clip connectors (conforming to NF C 20-120)  
See page 502-26

# Signalling units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

## Bodies for illuminated pushbuttons, screw and captive cable clamps connection

Supply	Diagram	Supply voltage	Contact	Reference	Weight kg
<b>Direct</b> bulb not supplied (1)		≤ 380 V	N/O	<b>ZA2-BW061</b>	0,040
			N/C	<b>ZA2-BW062</b>	0,040
			N/O + N/O	<b>ZA2-BW063</b>	0,055
			N/C + N/C	<b>ZA2-BW064</b>	0,055
			N/C + N/O	<b>ZA2-BW065</b>	0,055
<b>With resistor</b> bulb BA9S-130 V supplied		220/250 V	N/O	<b>ZA2-BW071</b>	0,045
			N/C	<b>ZA2-BW072</b>	0,045
			N/O + N/O	<b>ZA2-BW073</b>	0,060
			N/C + N/C	<b>ZA2-BW074</b>	0,060
			N/C + N/O	<b>ZA2-BW075</b>	0,060
<b>Via integral transformer 1,2 VA</b> bulb BA9S-6 V supplied		110 V : 50 HZ 110-120 V : 60 HZ	N/O	<b>ZA2-BW031</b>	0,100
			N/C	<b>ZA2-BW032</b>	0,100
			N/O + N/O	<b>ZA2-BW033</b>	0,115
			N/C + N/C	<b>ZA2-BW034</b>	0,115
			N/C + N/O	<b>ZA2-BW035</b>	0,115
<b>ZA2-BW041</b>		220 V : 50 HZ	N/O	<b>ZA2-BW041</b>	0,100
			N/C	<b>ZA2-BW042</b>	0,100
			N/O + N/O	<b>ZA2-BW043</b>	0,115
			N/C + N/C	<b>ZA2-BW044</b>	0,115
			N/C + N/O	<b>ZA2-BW045</b>	0,115
<b>ZA2-BW0941</b>		240 V : 50 HZ 220-240 V : 60 HZ	N/O	<b>ZA2-BW0941</b>	0,100
			N/C	<b>ZA2-BW0942</b>	0,100
			N/O + N/O	<b>ZA2-BW0943</b>	0,115
			N/C + N/C	<b>ZA2-BW0944</b>	0,115
			N/C + N/O	<b>ZA2-BW0945</b>	0,115
		380 V : 50 HZ	N/O	<b>ZA2-BW051</b>	0,100
			N/C	<b>ZA2-BW052</b>	0,100
			N/O + N/O	<b>ZA2-BW053</b>	0,115
			N/C + N/C	<b>ZA2-BW054</b>	0,115
			N/C + N/O	<b>ZA2-BW055</b>	0,115

(1) **Type of bulb to use for direct supply** : incandescent bulbs, BA9S base fitting , U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C... see page 502-18)

### Other versions

Bodies with transformer for 24 V (50-60 HZ), 48 V (50-60HZ), 500 V (50 HZ), 440/480 V (60 HZ), 550/600 V (60HZ) supply  
Bodies with 6,3 mm clip connectors (conforming to NF C 20-120)  
Bodies for low current switching  
See pages 502-27 to 502-30

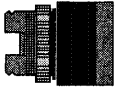
# Signalling units Ø 22

circular head, insulated bezel

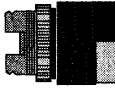
Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

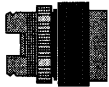
## Operating heads for spring return illuminated pushbuttons



ZA2.BW3.



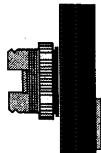
ZA2.BW3.2



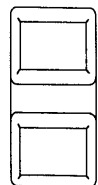
ZA2.BW1.



ZA2.BW81354



ZA2.BW84354



ZB2.BW008

Description	Colour	Reference	Weight kg
<b>Flush</b>	White	<b>ZA2-BW31</b>	0,015
	Green	<b>ZA2-BW33</b>	0,015
	Red	<b>ZA2-BW34</b>	0,015
	Yellow	<b>ZA2-BW35</b>	0,015
	Blue	<b>ZA2-BW36</b>	0,015
	Clear	<b>ZA2-BW37</b>	0,015
<b>Flush with half guard</b>	White	<b>ZA2-BW312</b>	0,015
	Green	<b>ZA2-BW332</b>	0,015
	Red	<b>ZA2-BW342</b>	0,015
	Yellow	<b>ZA2-BW352</b>	0,015
	Blue	<b>ZA2-BW362</b>	0,015
	Clear	<b>ZA2-BW372</b>	0,015
<b>Projecting</b>	White	<b>ZA2-BW11</b>	0,015
	Green	<b>ZA2-BW13</b>	0,015
	Red	<b>ZA2-BW14</b>	0,015
	Yellow	<b>ZA2-BW15</b>	0,015
	Blue	<b>ZA2-BW16</b>	0,015
	Clear	<b>ZA2-BW17</b>	0,015

## Operating heads for double headed operator illuminated pushbuttons (1)

Description	Operator colour	Pilot light colour	Reference	Weight kg	
<b>2 flush unmarked</b> Degree of protection IP40	Black	Red	Yellow	<b>ZA2-BW81254</b>	0,030
	Green	Red	Yellow	<b>ZA2-BW81354</b>	0,030
	Green	Red	Clear	<b>ZA2-BW81374</b>	0,030
<b>2 flush marked "I-O"</b> Degree of protection IP40	Black	Red	Yellow	<b>ZA2-BW82254</b>	0,030
	Green	Red	Yellow	<b>ZA2-BW82354</b>	0,030
	Green	Red	Clear	<b>ZA2-BW82374</b>	0,030
<b>1 flush 1 projecting unmarked</b> Degree of protection IP40	Black	Red	Yellow	<b>ZA2-BW83254</b>	0,030
	Green	Red	Yellow	<b>ZA2-BW83354</b>	0,030
	Green	Red	Clear	<b>ZA2-BW83374</b>	0,030
<b>1 flush 1 projecting marked "I-O"</b> Degree of protection IP40	Black	Red	Yellow	<b>ZA2-BW84254</b>	0,030
	Green	Red	Yellow	<b>ZA2-BW84354</b>	0,030
	Green	Red	Clear	<b>ZA2-BW84374</b>	0,030

(1) ZA2-BW8\*\*\* heads to be assembled ZA2-BW\*\*\* 2 contact bodies (see pages 502-12 and 502-27 to 502-30)

<b>Sealing boot</b> Degree of protection IP66	Clear silicone	<b>ZB2-BW008</b>	0,005
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# Signalling units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

## Operating heads for illuminated selector switches

Description	Position	Colour	Reference	Weight kg
<b>2 positions</b>	fixed	Green	<b>ZA2-BK123</b>	0,020
		Red	<b>ZA2-BK124</b>	0,020
		Yellow	<b>ZA2-BK125</b>	0,020
		Blue	<b>ZA2-BK126</b>	0,020
		Clear	<b>ZA2-BK127</b>	0,020
	1 spring return from right to left	Green	<b>ZA2-BK143</b>	0,020
		Red	<b>ZA2-BK144</b>	0,020
		Yellow	<b>ZA2-BK145</b>	0,020
		Blue	<b>ZA2-BK146</b>	0,020
		Clear	<b>ZA2-BK147</b>	0,020
<b>3 positions</b>	fixed	Green	<b>ZA2-BK133</b>	0,020
		Red	<b>ZA2-BK134</b>	0,020
		Yellow	<b>ZA2-BK135</b>	0,020
		Blue	<b>ZA2-BK136</b>	0,020
		Clear	<b>ZA2-BK137</b>	0,020
	2 spring return to centre	Green	<b>ZA2-BK153</b>	0,020
		Red	<b>ZA2-BK154</b>	0,020
		Yellow	<b>ZA2-BK155</b>	0,020
		Blue	<b>ZA2-BK156</b>	0,020
		Clear	<b>ZA2-BK157</b>	0,020
	1 spring return from left to centre	Green	<b>ZA2-BK173</b>	0,020
		Red	<b>ZA2-BK174</b>	0,020
		Yellow	<b>ZA2-BK175</b>	0,020
		Blue	<b>ZA2-BK176</b>	0,020
		Clear	<b>ZA2-BK177</b>	0,020
	1 spring return from right to centre	Green	<b>ZA2-BK183</b>	0,020
		Red	<b>ZA2-BK184</b>	0,020
		Yellow	<b>ZA2-BK185</b>	0,020
		Blue	<b>ZA2-BK186</b>	0,020
		Clear	<b>ZA2-BK187</b>	0,020



ZA2-BK1..

## Contact bodies

With direct supply, resistor or  
integral transformer block ZA2-BW0..

See pages 502-12 and 502-27  
to 502-30

# Control and signalling units Ø 22

## Spare parts and accessories

### Legend plate carriers 30 X 40 mm for "round aspect", with legend plates

"Start" functions : white characters on black background. "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
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#### Blank

Black or red background	<b>ZA2-BZ32101</b>	0,001	White or yellow background	<b>ZA2-BZ32102</b>	0,001
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#### Text in French

##### For pushbuttons

Arrêt	<b>ZA2-BZ32104</b>	0,001	Enclenchement	<b>ZA2-BZ32131</b>	0,001
Arrêt général	<b>ZA2-BZ32129</b>	0,001	En service	<b>ZA2-BZ32111</b>	0,001
Arrêt réarmement	<b>ZA2-BZ32133</b>	0,001	Fermeture	<b>ZA2-BZ32114</b>	0,001
Arrêt d'urgence	<b>ZA2-BZ32130</b>	0,001	Gauche	<b>ZA2-BZ32110</b>	0,001
Arrière	<b>ZA2-BZ32106</b>	0,001	Hors service	<b>ZA2-BZ32112</b>	0,001
Auto	<b>ZA2-BZ32115</b>	0,001	Marche	<b>ZA2-BZ32103</b>	0,001
Avant	<b>ZA2-BZ32105</b>	0,001	Montée	<b>ZA2-BZ32107</b>	0,001
Déclenchement	<b>ZA2-BZ32132</b>	0,001	Ouverture	<b>ZA2-BZ32113</b>	0,001
Défaut	<b>ZA2-BZ32134</b>	0,001	Réarmement	<b>ZA2-BZ32123</b>	0,001
Descente	<b>ZA2-BZ32108</b>	0,001	Sous tension	<b>ZA2-BZ32126</b>	0,001
Droite	<b>ZA2-BZ32109</b>	0,001	Stop	<b>ZA2-BZ32304</b>	0,001

##### For pushbuttons

Arrêt-Marche	<b>ZA2-BZ32166</b>	0,001	Avant-O-Arrière	<b>ZA2-BZ32184</b>	0,001
Auto-Main	<b>ZA2-BZ32164</b>	0,001	Hors-En	<b>ZA2-BZ32167</b>	0,001
Auto-O-Main	<b>ZA2-BZ32185</b>	0,001	Marche-Arrêt	<b>ZA2-BZ32162</b>	0,001

#### Standard symbols

O	<b>ZA2-BZ32146</b>	0,001	I-II	<b>ZA2-BZ32179</b>	0,001
I	<b>ZA2-BZ32147</b>	0,001	I-O-II	<b>ZA2-BZ32186</b>	0,001
II	<b>ZA2-BZ32148</b>	0,001	← or →	<b>ZA2-BZ32912</b>	0,001
O-I	<b>ZA2-BZ32178</b>	0,001	↑ or ↓	<b>ZA2-BZ32913</b>	0,001

### Legend plate carriers 30 X 40 mm for "round aspect", without legend plate

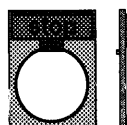
Description	Unit reference	Weight kg
Sold in lots of 10	<b>ZA2-BZ32</b>	0,001

### Legend plate carriers 30 X 50 mm for "round aspect"

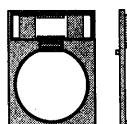
Description	Unit reference	Weight kg
With legend plate	Blank	
	Black or red background	<b>ZA2-BZ33101</b> 0,001
	White or yellow background	<b>ZA2-BZ33102</b> 0,001
Without legend plate	Sold in lots of 10	<b>ZA2-BZ33</b> 0,001

#### Other versions

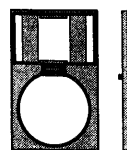
Legend plates with special text or in other languages :  
details on request



ZA2.BZ32304



ZA2.BZ32



ZA2.BZ33



Telemecanique

CITE Date 10/89

T Chap. Page  
5 02 15

# Control and signalling units Ø 22

## Spare parts and accessories

### Legend plate carriers 30 X 40 mm for "square aspect", with legend plates

"Start" functions : white characters on black background. "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
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#### Blank

Blank or red background	<b>ZA2-BZ34101</b>	0,001	White or yellow background	<b>ZA2-BZ34102</b>	0,001
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#### Text in French

For pushbuttons

Arrêt	<b>ZA2-BZ34104</b>	0,001	Enclenchement	<b>ZA2-BZ34131</b>	0,001
Arrêt général	<b>ZA2-BZ34129</b>	0,001	En service	<b>ZA2-BZ34111</b>	0,001
Arrêt réarmement	<b>ZA2-BZ34133</b>	0,001	Fermeture	<b>ZA2-BZ34114</b>	0,001
Arrêt d'urgence	<b>ZA2-BZ34130</b>	0,001	Gauche	<b>ZA2-BZ34110</b>	0,001
Arrière	<b>ZA2-BZ34106</b>	0,001	Hors service	<b>ZA2-BZ34112</b>	0,001
Auto	<b>ZA2-BZ34115</b>	0,001	Marche	<b>ZA2-BZ34103</b>	0,001
Avant	<b>ZA2-BZ34105</b>	0,001	Montée	<b>ZA2-BZ34107</b>	0,001
Déclenchement	<b>ZA2-BZ34132</b>	0,001	Ouverture	<b>ZA2-BZ34113</b>	0,001
Défaut	<b>ZA2-BZ34134</b>	0,001	Réarmement	<b>ZA2-BZ34123</b>	0,001
Descente	<b>ZA2-BZ34108</b>	0,001	Sous tension	<b>ZA2-BZ34126</b>	0,001
Droite	<b>ZA2-BZ34109</b>	0,001	Stop	<b>ZA2-BZ34304</b>	0,001

For selector switches

Arrêt-Marche	<b>ZA2-BZ34166</b>	0,001	Avant-O-Arrière	<b>ZA2-BZ34184</b>	0,001
Auto-Main	<b>ZA2-BZ34164</b>	0,001	Hors-En	<b>ZA2-BZ34167</b>	0,001
Auto-O-Main	<b>ZA2-BZ34185</b>	0,001	Marche-Arrêt	<b>ZA2-BZ34162</b>	0,001

#### Standard symbols

O	<b>ZA2-BZ34146</b>	0,001	I-II	<b>ZA2-BZ34179</b>	0,001
I	<b>ZA2-BZ34147</b>	0,001	I-O-II	<b>ZA2-BZ34186</b>	0,001
II	<b>ZA2-BZ34148</b>	0,001	← or →	<b>ZA2-BZ34912</b>	0,001
O-I	<b>ZA2-BZ34178</b>	0,001	↑ or ↓	<b>ZA2-BZ34913</b>	0,001

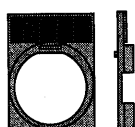
### Legend plate carriers 30 X 40 mm for "square aspect", without legend plate

Description	Unit reference	Weight kg
Sold in lots of 10	<b>ZA2-BZ34</b>	0,001

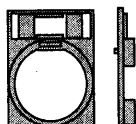
### Legend plate carriers 30 X 50 mm for "square aspect"

Description	Unit reference	Weight kg
<b>With legend plate</b>	Blank	
	Black or red background	<b>ZA2-BZ35101</b> 0,001
	White or yellow background	<b>ZA2-BZ35102</b> 0,001
<b>Without legend plate</b>	Sold in lots of 10	<b>ZA2-BZ35</b> 0,001

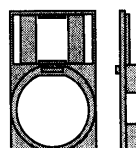
**Other versions** Legend plates with special text or in other languages : details on request



ZA2.BZ3404



ZA2.BZ34



ZA2.BZ35

# Control and signalling units Ø 22

## Spare parts and accessories

### Legend plates for 30 X 40 mm legend plate carrier

"Start" functions : white characters on black background, "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
------	-----------	-----------	------	-----------	-----------

#### Blank

Black or red background	<b>ZA2-BY4101</b>	0,001	White or yellow background	<b>ZA2-BY4102</b>	0,001
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#### Text in French





For pushbuttons

Arrêt	<b>ZA2-BY4104</b>	0,001	Enclenchement	<b>ZA2-BY4131</b>	0,001
Arrêt général	<b>ZA2-BY4129</b>	0,001	En service	<b>ZA2-BY4111</b>	0,001
Arrêt réarmement	<b>ZA2-BY4133</b>	0,001	Fermeture	<b>ZA2-BY4114</b>	0,001
Arrêt d'urgence	<b>ZA2-BY4130</b>	0,001	Gauche	<b>ZA2-BY4110</b>	0,001
Arrière	<b>ZA2-BY4106</b>	0,001	Hors service	<b>ZA2-BY4112</b>	0,001
Auto	<b>ZA2-BY4115</b>	0,001	Marche	<b>ZA2-BY4103</b>	0,001
Avant	<b>ZA2-BY4105</b>	0,001	Montée	<b>ZA2-BY4107</b>	0,001
Déclenchement	<b>ZA2-BY4132</b>	0,001	Ouverture	<b>ZA2-BY4113</b>	0,001
Défaut	<b>ZA2-BY4134</b>	0,001	Réarmement	<b>ZA2-BY4123</b>	0,001
Descente	<b>ZA2-BY4108</b>	0,001	Sous tension	<b>ZA2-BY4126</b>	0,001
Droite	<b>ZA2-BY4109</b>	0,001	Stop	<b>ZA2-BY4304</b>	0,001

For selector switches

Arrêt-Marche	<b>ZA2-BY4166</b>	0,001	Avant-O-Arrière	<b>ZA2-BY4184</b>	0,001
Auto-Main	<b>ZA2-BY4164</b>	0,001	Hors-En	<b>ZA2-BY4167</b>	0,001
Auto-O-Main	<b>ZA2-BY4185</b>	0,001	Marche-Arrêt	<b>ZA2-BY4162</b>	0,001

#### Standard symbols

O	<b>ZA2-BY4146</b>	0,001	I-II	<b>ZA2-BY4179</b>	0,001
I	<b>ZA2-BY4147</b>	0,001	I-O-II	<b>ZA2-BY4186</b>	0,001
II	<b>ZA2-BY4148</b>	0,001	 or 	<b>ZA2-BY4912</b>	0,001
O-I	<b>ZA2-BY4178</b>	0,001	 or 	<b>ZA2-BY4913</b>	0,001

#### Special text

Please state exact text required when ordering	1 line 10 characters max	Black background	<b>ZA2-BY4002</b>	0,001
		Red background	<b>ZA2-BY4004</b>	0,001
		White background	<b>ZA2-BY4001</b>	0,001
		Yellow background	<b>ZA2-BY4005</b>	0,001

### Legend plates for 30 X 50 mm legend plate carrier

Description	Reference	Weight kg
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<b>Blank</b>	Black or red background	<b>ZA2-BY5101</b>	0,001
	White or yellow background	<b>ZA2-BY5102</b>	0,001

<b>Other text</b> Please state exact text required when ordering	2 lines 10 characters max per line	Black background	<b>ZA2-BY5002</b>	0,001
		Red background	<b>ZA2-BY5004</b>	0,001
		White background	<b>ZA2-BY5001</b>	0,001
		Yellow background	<b>ZA2-BY5005</b>	0,001

**Other versions** Legend plates with special text or in other languages : details on request

ZA2.BY4...

ZA2.BY5...

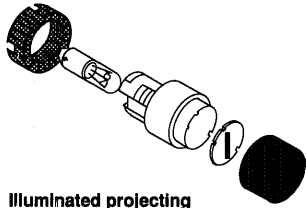
# Control and signalling units Ø 22

## Accessories and spare parts

### Circular legend plates (for transparent pushbuttons, pilot lights and illuminated pushbuttons)



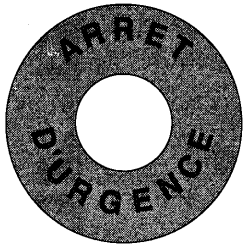
Transparent flush pushbutton



Illuminated projecting pushbutton

WITHOUT TEXT					ARRET	Weight kg
ZB2.BY1101	ZB2.BY1146	ZB2.BY1147	ZB2.BY1148	ZB2.BY1149	ZB2.BY1104	0,001
AUTO	AVANT	ARRIERE	DESCENTE	MAIN	MARCHE	0,001
ZB2.BY1115	ZB2.BY1105	ZB2.BY1106	ZB2.BY1108	ZB2.BY1116	ZB2.BY1103	0,001
MONTEE	STOP	↑	↓	→	←	0,001
ZB2.BY1107	ZB2.BY1304	ZB2.BY1912	ZB2.BY1912	ZB2.BY1912	ZB2.BY1912	0,001

### Circular legend plates (for mushroom head pushbuttons)



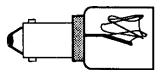
ZB2-BY8130

Blank	One side white, one side yellow	Ø 60 mm	ZB2-BY9101	0,006
		Ø 90 mm	ZB2-BY8101	0,008
Marked "Arrêt d'urgence"	Yellow background, black characters	Ø 60 mm	ZB2-BY9130	0,006
		Ø 90 mm	ZB2-BY8130	0,008

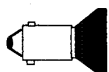
### BA9S base bulbs (max Ø 11 mm, max length 28 mm)



DL1.CB....CE...



DL1.CF....CG...

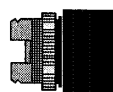


DL1.CD....CJ...

Description		Voltage	Unit reference	Weight kg	
Incandescent bulbs (sold in lots of 10)	For pilot lights green, red, yellow blue, clear	6 V	DL1-CB006	0,002	
		12 V	DL1-CE012	0,002	
		24 V	DL1-CE024	0,002	
		48 V	DL1-CE048	0,002	
		130 V	DL1-CE130	0,002	
Neon bulbs (sold in lots of 10)	For pilot lights green, red, yellow	110 V	DL1-CF110	0,002	
		220 V	DL1-CF220	0,002	
		380 V	DL1-CF380	0,002	
Neon bulbs (sold singly)	For green pilot lights	220 V d.c.	DL1-CG220	0,002	
		380 V d.c.	DL1-CG380	0,002	
LED For bodies supplied directly (sold singly)	Green	24 V d.c.	DL1-CJ0243	0,002	
		48 V d.c.	DL1-CJ0483	0,002	
		Red	24 V d.c.	DL1-CJ0244	0,002
			48 V d.c.	DL1-CJ0484	0,002
		Yellow	24 V d.c.	DL1-CJ0245	0,002
			48 V d.c.	DL1-CJ0485	0,002
LED For bodies supplied via integral transformer (sold singly)	Green	6 V a.c.	DL1-CD0063	0,002	
		Red	6 V a.c.	DL1-CD0064	0,002
			6 V a.c.	DL1-CD0065	0,002

# Control and signalling units Ø 22

## Spare parts and accessories



ZA2.BA8...



ZA2.BL8401



ZA2.BZ13



ZB2.BZ21



ZA2.BZ31



ZA2.BZ36



ZA2.BZ009



ZB2.BZ001



ZB2.BZ8



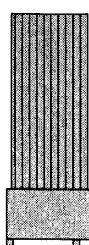
XBF.X13



ZB2.SZ3



ZA2.SZ5



ZA2.BZ905

### Mechanical overload resets (10 mm travel)

Description	Colour	Unit reference	Weight kg	
Flush pushbuttons	Blank	Green	<b>ZA2-BA83</b>	0,015
		Red	<b>ZA2-BA84</b>	0,015
		Blue	<b>ZA2-BA86</b>	0,015
Projecting pushbuttons	With legend	Red O	<b>ZA2-BA8401</b>	0,015
		Blue R	<b>ZA2-BA8602</b>	0,015
Sealing boots	For flush pushbutton	Clear silicone	<b>ZA2-BP037</b>	0,005
Operating rod (1) (may be cut to length required)	Sold in lots of 10		<b>ZA2-BZ13</b>	0,010

(1) The total operating distance may be set between 17 and 120 mm, as measured from the front face of the mounting plate.

Note : The operating heads cannot be combined with ZA2-BZ\*\*\* contact blocks.

### Accessories, spare parts

Description	Utilisation	Unit reference	Weight kg
Intermediary block "Push-Push"	For pushbuttons and illuminated pushbuttons (except mushroom head pushbuttons)	<b>ZB2-BZ21</b>	0,008
Square collar adaptor Sold in lots of 10	For "square aspect" without legend plate	<b>ZA2-BZ31</b>	0,001
Mounting ring with locating pip Sold in lots of 10	Round for Ø 22	<b>ZA2-BZ36</b>	0,001
	Square for Ø 22	<b>ZA2-SZ5</b>	0,001
Insulating blanking plugs (black)	Round for Ø 22	<b>ZA2-SZ3</b>	0,001
	Square for Ø 22	<b>ZA2-SZ5</b>	0,001
Legend carrier Sold in lots of 10	Allows individual bodies or body/contact assemblies to be labelled	<b>ZB2-BZ001</b>	0,003
Mounting collar	For fixing the ZB2-BE contact block(s) only	<b>ZA2-BZ009</b>	0,005
Ronis key n° 455	For key operated units	<b>Q99900901</b>	0,006

### Tools

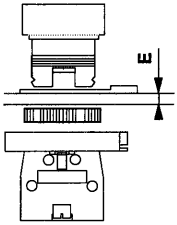
Description	Utilisation	Unit reference	Weight kg
Socket key	For tightening the operating head locking ring	<b>ZA2-BZ905</b>	0,060
Bezel key	For pushbuttons with "transparent push"	<b>ZB2-BZ8</b>	0,006
Bulb extractor	For use with BA9s bulbs	<b>XBF-X13</b>	0,025

# Control and signalling units Ø 22

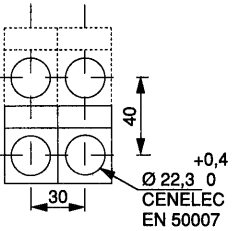
## Dimensions

Characteristics  
page 502-02  
References  
pages 502-03 to 502-19

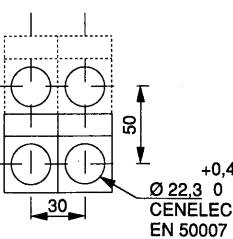
### Mounting panel drilling (Thickness E=1 à 5 mn)



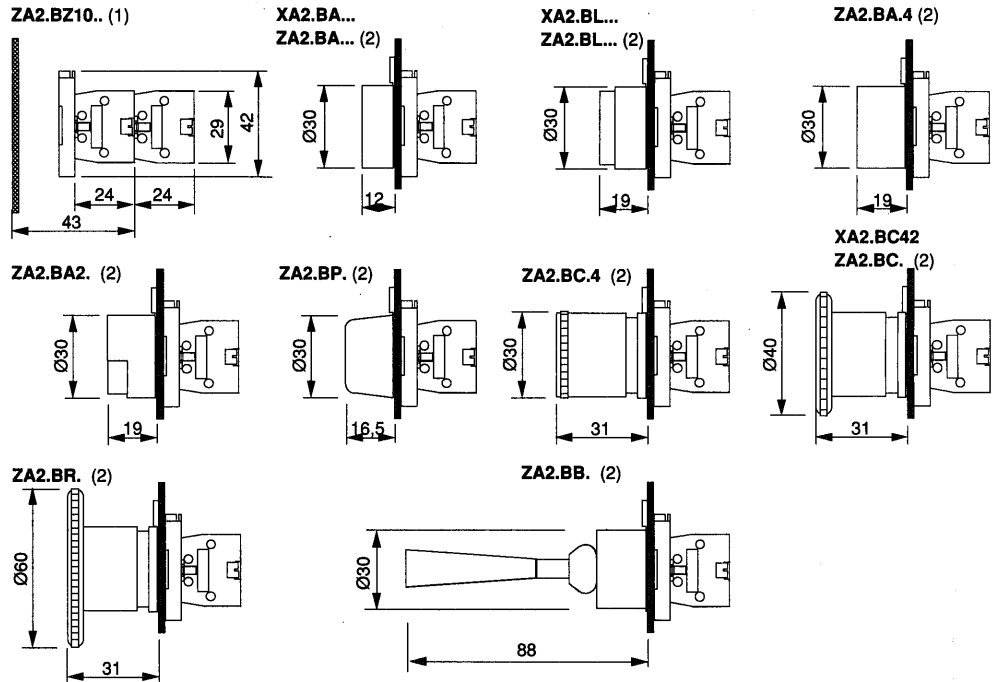
### XA2.B (with 30 X 40 legend plate carrier)



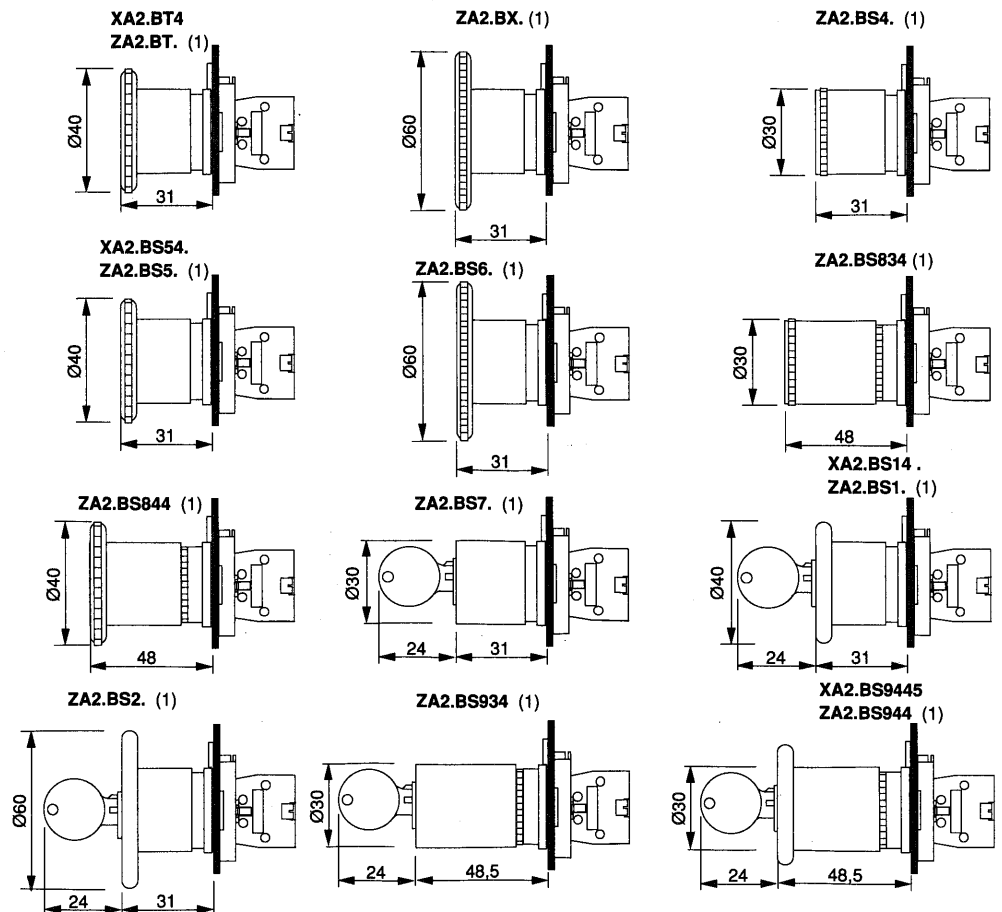
### XA2.B (with 30 X 40 legend plate carrier)



### Spring return pushbuttons



### Latching pushbuttons

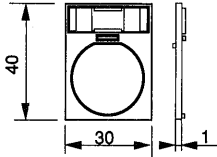


(1) body/contact assembly

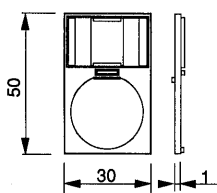
(2) operating head

Legend plate carrier

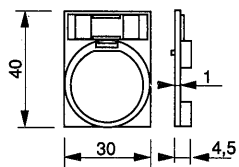
ZA2.BZ32



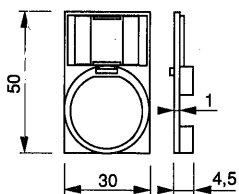
ZA2.BZ33



ZA2.BZ34

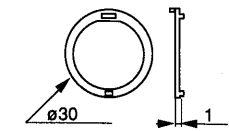


ZA2.BZ35



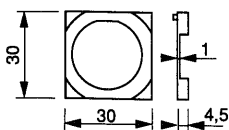
Collar

ZA2.BZ36



Square

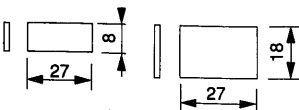
ZA2.BZ31



Legend plates

ZA2.BY4...

ZA2.BY5...



(1) Body  
(2) Operating head

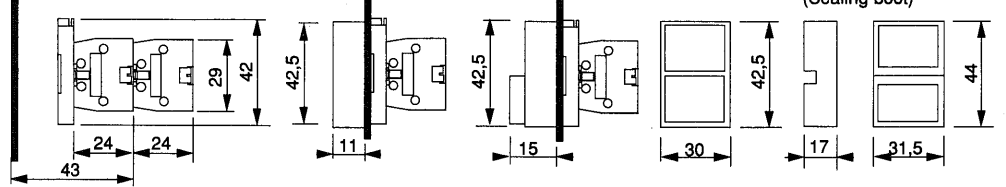
Double headed pushbuttons without pilot light

ZA2.BZ10.. (1)

ZA2.BA... (2)

ZA2.BL... (2)

ZA2.BA008  
(Sealing boot)



Double headed pushbuttons with pilot light

ZA2.BW06. (1)

ZA2.BW07. (1)

ZA2.BW0. (transformer) (1)

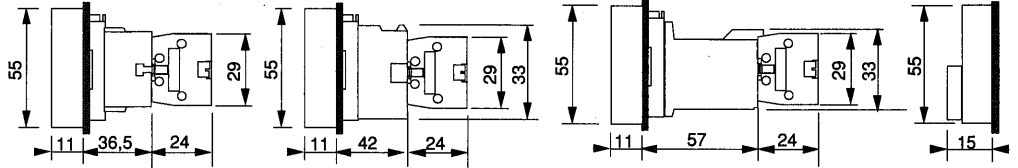
ZA2.BW83. (2)

ZA2.BW81...BW82...(2)

ZA2.BW81...BW82...(2)

ZA2.BW81...BW82...(2)

ZA2.BW84. (2)



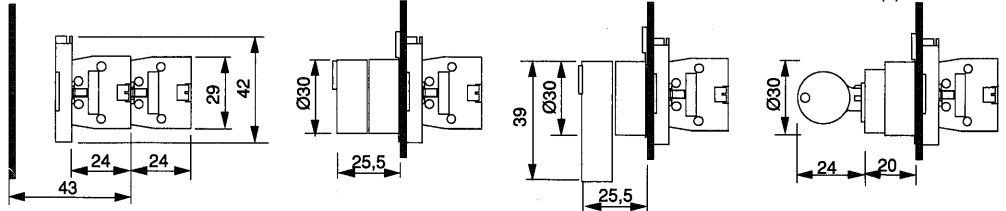
Selector switches

ZA2.BZ10.. (1)

XA2.BD...  
ZA2.BD (2)

ZA2.BJ. (2)

XA2.BG..  
ZA2.BG.. (2)



Pilot lights

XA2.BV6.

XA2.BV7.

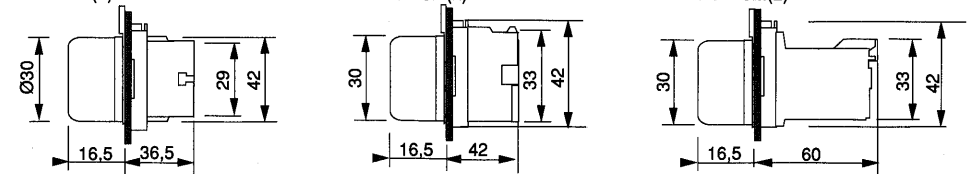
ZA2.BV.. (transformer) (1)  
ZA2.BV0...(2)

ZA2.BV6. (1)

ZA2.BV7. (1)

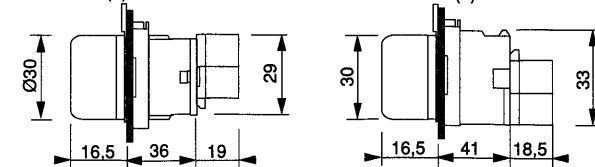
ZA2.BV0. (2)

ZA2.BV0. (2)



ZA2.BV156 (1)

ZA2.BV157 (1)



Illuminated pushbuttons

XA2.BW..6.

XA2.BW..7.

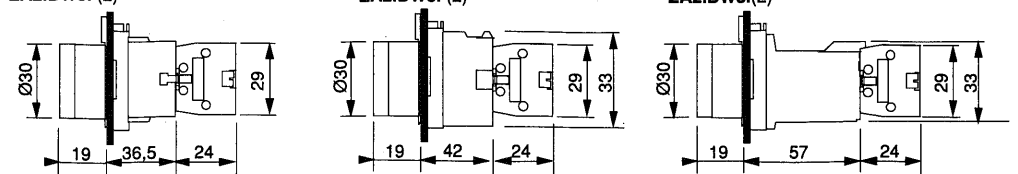
ZA2.BW0. (transformer) (1)  
ZA2.BW3.(2)

ZA2.BW06. (1)

ZA2.BW07. (1)

ZA2.BW3. (2)

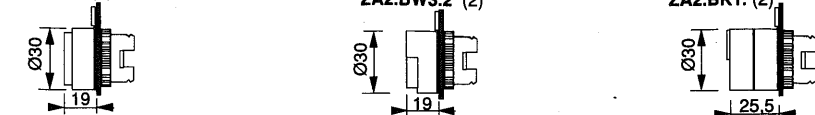
ZA2.BW3. (2)



ZA2.BW1.(2)

ZA2.BW3.2 (2)

ZA2.BK1. (2)



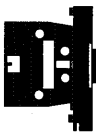
# Control units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-20

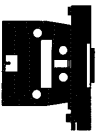
## Complete bodies with 1 contact block, 6,3 mm clip connectors



ZA2.BZ1013

Description	Contact	Model	Reference	Weight kg
For pushbuttons and 2 position selector switches	N/O	Standard	<b>ZA2-BZ1013</b>	0,020
		For low currents	<b>ZA2-BZ1017</b>	0,020
	N/C	Standard	<b>ZA2-BZ1023</b>	0,020
		For low currents	<b>ZA2-BZ1027</b>	0,020

## Complete bodies with 2 contact block, 6,3 mm clip connectors



ZA2.BZ1053

Description	Contact	Model	Reference	Weight kg
For pushbuttons and 2 or 3 position selector switches	N/O + N/O	Standard	<b>ZA2-BZ1033</b>	0,035
		For low currents	<b>ZA2-BZ1037</b>	0,035
	N/C + N/C	Standard	<b>ZA2-BZ1043</b>	0,035
		For low currents	<b>ZA2-BZ1047</b>	0,035
	N/C + N/O	Standard	<b>ZA2-BZ1053</b>	0,035
		For low currents	<b>ZA2-BZ1057</b>	0,035
	N/O + N/C Late break	Standard	<b>ZA2-BZ1063</b>	0,035
	N/O + N/O Early make	Standard	<b>ZA2-BZ1073</b>	0,035

## Supplementary contacts blocks, screw and captive cable clamp connections

Description	Contact	Model	Reference	Weight kg
For 2 contact body assemblies N/O + N/C early make or N/O + N/O late break	N/O (1) early make	Standard	<b>ZB2-BE201</b>	0,015
	N/C (1) late break	Standard	<b>ZB2-BE202</b>	0,015

## Supplementary contacts blocks, 6,3 mm clip connectors



ZB2.BE...

For converting body/contact assemblies to 3, 4, 5 or 6 contacts maximum or replacing 1st or 2nd contact blocks	N/O	Standard	<b>ZB2-BE1013</b>	0,015
		For low currents	<b>ZB2-BE1017</b>	0,015
	N/C	Standard	<b>ZB2-BE1023</b>	0,015
		For low currents	<b>ZB2-BE1027</b>	0,015
	N/O (1) early make	Standard	<b>ZB2-BE2013</b>	0,015
	O (1) late break	Standard	<b>ZB2-BE2023</b>	0,015

(1) For mounting sub-assemblies :

N/O + N/C late break = ZB2-BE201 + ZB2-BE202 or ZB2-BE2013 + ZB2-BE2023

N/O + N/O early make = ZB2-BE101 + ZB2-BE201 or ZB2-BE1013 + ZB2-BE2013

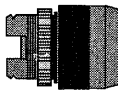
# Control units Ø 22

circular head

Adaptable sub-assemblies


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## Operating heads for spring return pushbuttons




Description	Model	Colour	Reference	Weight kg
 <b>ZA2.BP.</b>	Neoprene sealing boot	Black	<b>ZA2-BP02</b>	0,015
		Green	<b>ZA2-BP03</b>	0,015
		Red	<b>ZA2-BP04</b>	0,015
		Yellow	<b>ZA2-BP05</b>	0,015
		Blue	<b>ZA2-BP06</b>	0,015
		<b>With sealing boot</b>		

 <b>ZA2.BC449</b>	Ø 30 mm	Red	<b>ZA2-BC449</b>	0,045
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## Operating heads for "emergency stop" latching mushroom head pushbuttons

Description	Model	Colour	Reference	Weight kg
 <b>ZA2.BT.4</b>	Ø 30 mm	Black	<b>ZA2-BT24</b>	0,060
		Red	<b>ZA2-BT44</b>	0,060

## Operating heads for latching mushroom head pushbuttons with key release

Description	Colour	Key number	Reference	Weight kg	
 <b>ZA2.BS74</b>	Ø 30 mm Red	421	<b>ZA2-BS7412</b>	0,060	
		458A	<b>ZA2-BS7410</b>	0,060	
		520	<b>ZA2-BS7414</b>	0,060	
		3131A	<b>ZA2-BS7420</b>	0,060	
		Other n° (1)	<b>ZA2-BS74K....</b>	0,060	
		Ø 40 mm Red	421	<b>ZA2-BS1412</b>	0,070
	458A	<b>ZA2-BS1410</b>	0,070		
	520	<b>ZA2-BS1414</b>	0,070		
	3131A	<b>ZA2-BS1420</b>	0,070		
	Other n° (1)	<b>ZA2-BS14K....</b>	0,070		
	Ø 60 mm Red	421	<b>ZA2-BS2412</b>	0,080	
		458A	<b>ZA2-BS2410</b>	0,080	
		520	<b>ZA2-BS2414</b>	0,080	
		3131A	<b>ZA2-BS2420</b>	0,080	
		Other n° (1)	<b>ZA2-BS24K....</b>	0,080	
 <b>ZA2.BS14</b>		Ø 30 mm Red	421	<b>ZA2-BS93412</b>	0,060
	458A		<b>ZA2-BS93410</b>	0,060	
	520		<b>ZA2-BS93414</b>	0,060	
	3131A		<b>ZA2-BS93420</b>	0,060	
	Other n° (1)		<b>ZA2-BS934K....</b>	0,060	
	Ø 40 mm Red		421	<b>ZA2-BS94412</b>	0,070
		458A	<b>ZA2-BS94410</b>	0,070	
		520	<b>ZA2-BS94414</b>	0,070	
		3131A	<b>ZA2-BS94420</b>	0,070	
		Other n° (1)	<b>ZA2-BS944K....</b>	0,070	
		 <b>ZA2.BS934</b>	Ø 30 mm Red	421	<b>ZA2-BS93412</b>
	458A			<b>ZA2-BS93410</b>	0,060
	520			<b>ZA2-BS93414</b>	0,060
	3131A			<b>ZA2-BS93420</b>	0,060
	Other n° (1)			<b>ZA2-BS934K....</b>	0,060
Ø 40 mm Red	421			<b>ZA2-BS94412</b>	0,070
	458A	<b>ZA2-BS94410</b>	0,070		
	520	<b>ZA2-BS94414</b>	0,070		
	3131A	<b>ZA2-BS94420</b>	0,070		
	Other n° (1)	<b>ZA2-BS944K....</b>	0,070		

### (1) Other key numbers

1242A	1422A	2132E	3122A	3423A
1243E	1431E	3112E	3123A	3432A
1344A	2123E	3113A	3233A	4241A

When ordering a ZA2-BS operating head with a different key number

Add the key number to the reference selected above  
Example : **ZA2-BS74K1242A**  
Unlisted numbers on request.

**ZA2.BS944**

# Control units Ø 22

Insulated bezel

Adaptable sub-assemblies

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## Operating heads for double headed pushbuttons

Description	Colour	Marking	Reference	Weight kg	
<b>2 flush</b> Degree of protection IP40	Black Green	None	<b>ZA2-BA8123</b>	0,030	
	Black Red	Marche Arrêt	<b>ZA2-BA8524</b>	0,030	
		Start Stop	<b>ZA2-BA8724</b>	0,030	
	Green Red	Marche Arrêt	<b>ZA2-BA8534</b>	0,030	
		Start Stop	<b>ZA2-BA8734</b>	0,030	
	<b>2 flush</b> Degree of protection IP65	Black Green	None	<b>ZA2-BA9123</b>	0,030
Black Red		Marche Arrêt	<b>ZA2-BA9524</b>	0,030	
		Start Stop	<b>ZA2-BA9724</b>	0,030	
Green Red		Marche Arrêt	<b>ZA2-BA9534</b>	0,030	
		Start Stop	<b>ZA2-BA9734</b>	0,030	
<b>1 flush</b> <b>1 projecting</b> Degree of protection IP40		Black Red	Marche Arrêt	<b>ZA2-BL8624</b>	0,030
	Start Stop		<b>ZA2-BL8824</b>	0,030	
	Green Red	Marche Arrêt	<b>ZA2-BL8634</b>	0,030	
		Start Stop	<b>ZA2-BL8834</b>	0,030	
	<b>1 flush</b> <b>1 projecting</b> Degree of protection IP65	Black Red	Marche Arrêt	<b>ZA2-BL9624</b>	0,030
			Start Stop	<b>ZA2-BL9824</b>	0,030
Vert Red		Marche Arrêt	<b>ZA2-BL9634</b>	0,030	
		Start Stop	<b>ZA2-BL9834</b>	0,030	
<b>Sealing boot</b> Degree of protection IP66	Clear silicone		<b>ZB2-BA008</b>	0,004	
<b>Operating heads mounting</b>	With ZA2-BZ*** 2 contacts body See pages 502-05 and 502-22				



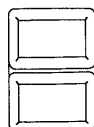
ZA2.BA8123



ZA2.BA9534



ZA2.BL8834



ZB2-BA008

Other versions

Double headed operating heads with other colour combinations or other marking : details on request

# Control units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-20

## Operating heads for key operated selector switches

Description	Key withdrawal	Key number	Reference	Key number	Reference
<b>2 positions</b>	Left hand position	421	<b>ZA2-BG212</b>	3131A	<b>ZA2-BG220</b>
		458A	<b>ZA2-BG210</b>		
		520	<b>ZA2-BG214</b>	Other n° (1)	<b>ZA2-BG2K....</b>
	Left and right hand position	421	<b>ZA2-BG412</b>	31131A	<b>ZA2-BG420</b>
		458A	<b>ZA2-BG410</b>		
		520	<b>ZA2-BG414</b>	Other n° (1)	<b>ZA2-BG4K....</b>
<b>2 positions</b> 1 spring return from right to left	Left hand position	421	<b>ZA2-BG612</b>	3131A	<b>ZA2-BG620</b>
		458A	<b>ZA2-BG610</b>		
		520	<b>ZA2-BG614</b>	Other n° (1)	<b>ZA2-BG6K....</b>
<b>3 positions</b> fixed	Centre position	421	<b>ZA2-BG312</b>	3131A	<b>ZA2-BG320</b>
		458A	<b>ZA2-BG310</b>		
		520	<b>ZA2-BG314</b>	Other n° (1)	<b>ZA2-BG3K....</b>
	Left and right hand position	421	<b>ZA2-BG512</b>	31131A	<b>ZA2-BG520</b>
		458A	<b>ZA2-BG510</b>		
		520	<b>ZA2-BG514</b>	Other n° (1)	<b>ZA2-BG5K....</b>
Left hand position	421	<b>ZA2-BG912</b>	3131A	<b>ZA2-BG920</b>	
	458A	<b>ZA2-BG910</b>			
	520	<b>ZA2-BG914</b>	Other n° (1)	<b>ZA2-BG9K....</b>	
Right hand position	421	<b>ZA2-BG0912</b>	31131A	<b>ZA2-BG0920</b>	
	458A	<b>ZA2-BG0910</b>			
	520	<b>ZA2-BG0914</b>	Other n° (1)	<b>ZA2-BG09K....</b>	
In all 3 positions (2)	421	<b>ZA2-BG012</b>	3131A	<b>ZA2-BG020</b>	
	458A	<b>ZA2-BG010</b>			
	520	<b>ZA2-BG014</b>	Other n° (1)	<b>ZA2-BG0K....</b>	
(2) Reduced number of tumblers					
<b>3 positions</b> 2 spring return to centre	Centre position	421	<b>ZA2-BG712</b>	3131A	<b>ZA2-BG720</b>
		458A	<b>ZA2-BG710</b>		
		520	<b>ZA2-BG714</b>	Other n° (1)	<b>ZA2-BG7K....</b>
<b>3 positions</b> 1 spring return from left to centre	Right hand position	421	<b>ZA2-BG112</b>	3131A	<b>ZA2-BG120</b>
		458A	<b>ZA2-BG110</b>		
		520	<b>ZA2-BG114</b>	Other n° (1)	<b>ZA2-BG1K....</b>
<b>3 positions</b> 1 spring return from right to centre	Centre position	421	<b>ZA2-BG812</b>	3131A	<b>ZA2-BG820</b>
		458A	<b>ZA2-BG810</b>		
		520	<b>ZA2-BG814</b>	Other n° (1)	<b>ZA2-BG8K....</b>
	Left hand position	455	<b>ZA2-BG08</b>	3131A	<b>ZA2-BG0820</b>
		421	<b>ZA2-BG0812</b>		
		458A	<b>ZA2-BG0810</b>	Other n°(1)	<b>ZA2-BG08K....</b>
520	<b>ZA2-BG0814</b>				
Weight kg		0,045		0,045	

### (1) Other key numbers

1242A	1422A	2132E	3122A	3423A
1243E	1431E	3112E	3123A	4241A
1344A	2123E	3113A	3233A	3432A

When ordering a ZA2-BG operator with a different key number

Add the key number to the reference selected above.  
Example : ZA2-BG2K1242A  
Unlisted numbers on request.



ZA2.BG.



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# Signalling units Ø 22

circular heads, insulated bezel

Adaptable sub-assemblies

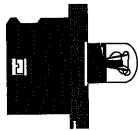
Characteristics  
page 502-02  
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page 502-21

## Complete bodies for pilot lights

Supply	Supply voltage	Connection	Reference	Weight kg
<b>Direct</b> bulb not supplied (1)	≤ 380 V	6,3 mm clips	<b>ZA2-BV63</b>	0,025
<b>With resistor</b> bulb BA9S-130 V supplied	220/250 V	6,3 mm clips	<b>ZA2-BV73</b>	0,030
<b>Via integral transformer 1,2 VA</b> bulb BA9S - 6 V supplied	24 V : 50-60 HZ	Captive screw clamp	<b>ZA2-BV1</b>	0,090
		6,3 mm clips	<b>ZA2-BV13</b>	0,090
	48 V : 50-60 HZ	Captive screw clamp	<b>ZA2-BV2</b>	0,090
		6,3 mm clips	<b>ZA2-BV23</b>	0,090
	110 V : 50 HZ 110-120 V : 60 HZ	6,3 mm clips	<b>ZA2-BV33</b>	0,090
		Captive screw clamp	<b>ZA2-BV91</b>	0,090
	127 V : 50 HZ	6,3 mm clips	<b>ZA2-BV913</b>	0,090
		Captive screw clamp	<b>ZA2-BV43</b>	0,090
	220 V : 50 HZ	6,3 mm clips	<b>ZA2-BV943</b>	0,090
		Captive screw clamp	<b>ZA2-BV53</b>	0,090
	220 V : 50 HZ 220-240 V / 60 HZ	6,3 mm clips	<b>ZA2-BV93</b>	0,090
		6,3 mm clips	<b>ZA2-BV933</b>	0,090
	380 V : 50 HZ	Captive screw clamp	<b>ZA2-BV93</b>	0,090
		6,3 mm clips	<b>ZA2-BV933</b>	0,090
	415 V : 50 HZ	Captive screw clamp	<b>ZA2-BV93</b>	0,090
		6,3 mm clips	<b>ZA2-BV933</b>	0,090
	440-480 V : 60 HZ	Captive screw clamp	<b>ZA2-BV93</b>	0,090
		6,3 mm clips	<b>ZA2-BV933</b>	0,090
	500 V : 50 HZ	Captive cable clamp	<b>ZA2-BV8</b>	0,090
		6,3 mm clips	<b>ZA2-BV83</b>	0,090
	550-600 V : 60 HZ	Captive screw clamp	<b>ZA2-BV98</b>	0,090
		6,3 mm clips	<b>ZA2-BV983</b>	0,090



ZA2-BV63



ZA2-BV73



ZB2-BV43



ZB2-BV1563



ZA2-BV1573

## Complete bodies with test facility

Supply	Supply voltage	Connection	Reference	Weight kg
<b>Direct</b> bulb not supplied (1)	≤ 380 V	6,3 mm clips	<b>ZA2-BV1563</b>	0,030
<b>With resistor</b> bulb BA9S-130 V supplied	220-250 V	6,3 mm clips	<b>ZA2-BV1573</b>	0,035

(1) Type of bulb to use for direct supply : incandescent bulbs, BA9S base fitting , U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C\*\*\* see page 502-18)

Operating heads for pilot lights

See page 502-11

# Signalling units Ø 22

circular heads, insulated bezel

Adaptable sub-assemblies

Characteristics  
page 502-02  
Dimensions  
page 502-21

## Complete bodies for pilot lights

Supply	Supply voltage	Contact	Reference	Weight kg
<b>With standard contact blocks, screw and captive clamp connection</b>				
Via Integral transformer 1,2 VA bulb BA9S-6 V not supplied	24 V : 50-60 HZ	N/O	ZA2-BW011	0,100
		N/C	ZA2-BW012	0,100
		N/O + N/O	ZA2-BW013	0,115
		N/C + N/C	ZA2-BW014	0,115
		N/C + N/O	ZA2-BW015	0,115
	48 V : 50-60 HZ	N/O	ZA2-BW021	0,100
		N/C	ZA2-BW022	0,100
		N/O + N/O	ZA2-BW023	0,115
		N/C + N/C	ZA2-BW024	0,115
		N/C + N/O	ZA2-BW025	0,115
	127 V : 50 HZ	N/O	ZA2-BW0911	0,100
		N/C	ZA2-BW0912	0,100
		N/O + N/O	ZA2-BW0913	0,115
		N/C + N/C	ZA2-BW0914	0,115
		N/C + N/O	ZA2-BW0915	0,115
	415 V : 50 HZ	N/O	ZA2-BW0931	0,100
		N/C	ZA2-BW0932	0,100
		N/O + N/O	ZA2-BW0933	0,115
		N/C + N/C	ZA2-BW0934	0,115
		N/C + N/O	ZA2-BW0935	0,115
	440-480 V : 60 HZ	N/O	ZA2-BW0951	0,100
		N/C	ZA2-BW0952	0,100
		N/O + N/O	ZA2-BW0953	0,115
		N/C + N/C	ZA2-BW0954	0,115
		N/C + N/O	ZA2-BW0955	0,115
	500 V : 50 HZ	N/O	ZA2-BW081	0,100
		N/C	ZA2-BW082	0,100
		N/O + N/O	ZA2-BW083	0,115
		N/C + N/C	ZA2-BW084	0,115
		N/C + N/O	ZA2-BW085	0,115
	550-600 V : 60 HZ	N/O	ZA2-BW0981	0,100
		N/C	ZA2-BW0982	0,100
		N/O + N/O	ZA2-BW0983	0,115
		N/C + N/C	ZA2-BW0984	0,115
		N/C + N/O	ZA2-BW0985	0,115

### Other supply voltages

110 V : 50 HZ, 110-120 V : 60 HZ, 220 V : 50 HZ, 240 V : 50 HZ, 220-240 V : 60 HZ, 380 V : 50 HZ. See page 502-12

## Operating heads for illuminated pushbuttons

Description	Colour	Reference	Weight kg	
Latching mushroom head pushbuttons Turn to release	Ø 40 mm	Green	ZA2-BW73	0,050
		Red	ZA2-BW74	0,050
		Yellow	ZA2-BW75	0,050
		Blue	ZA2-BW76	0,050
		Clear	ZA2-BW77	0,050

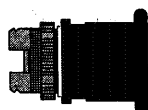
### Other operating heads for illuminated pushbuttons

Flush  
Projecting  
Double headed operator with pilot light  
Selector switch

See pages 502-13 and 502-14



ZA2-BW0..



ZA2.BW7.



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# Signalling units Ø 22

circular head

Adaptable sub-assemblies

Characteristics  
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## Complete bodies for illuminated pushbuttons

Supply	Supply voltage	Contact	Reference	Contact	Reference
<b>With standard contact blocks, with 6,3 mm clip connectors</b>					
<b>Direct</b> bulb not supplied (1)	≤ 380 V	N/O	<b>ZA2-BW0613</b>	N/C + N/C	<b>ZA2-BW0643</b>
		N/C	<b>ZA2-BW0623</b>	N/C + N/O	<b>ZA2-BW0653</b>
		N/O + N/O	<b>ZA2-BW0633</b>		
	Weight kg	1contact :	0,040	2 contacts :	0,055
<b>With resistor</b> bulb BA9S-130 V supplied	220-250 V	N/O	<b>ZA2-BW0713</b>	N/C + N/C	<b>ZA2-BW0743</b>
		N/C	<b>ZA2-BW0723</b>	N/C + N/O	<b>ZA2-BW0753</b>
		N/O + N/O	<b>ZA2-BW0733</b>		
	Weight kg	1contact :	0,045	2 contacts :	0,060
<b>Via integral transformer 1,2 VA</b> bulb BA9S-6 V supplied	24 V : 50-60 HZ	N/O	<b>ZA2-BW0113</b>	N/C + N/C	<b>ZA2-BW0143</b>
		N/C	<b>ZA2-BW0123</b>	N/C + N/O	<b>ZA2-BW0153</b>
		N/O + N/O	<b>ZA2-BW0133</b>		
	48 V : 50-60 HZ	N/O	<b>ZA2-BW0213</b>	N/C + N/C	<b>ZA2-BW0243</b>
		N/C	<b>ZA2-BW0223</b>	N/C + N/O	<b>ZA2-BW0253</b>
		N/O + N/O	<b>ZA2-BW0233</b>		
	110 V : 50 HZ 110-120 V : 60 HZ	N/O	<b>ZA2-BW0313</b>	N/C + N/C	<b>ZA2-BW0343</b>
		N/C	<b>ZA2-BW0323</b>	N/C + N/O	<b>ZA2-BW0353</b>
		N/O + N/O	<b>ZA2-BW0333</b>		
	127 V : 50 HZ	N/O	<b>ZA2-BW09113</b>	N/C + N/C	<b>ZA2-BW09143</b>
		N/C	<b>ZA2-BW09123</b>	N/C + N/O	<b>ZA2-BW09153</b>
		N/O + N/O	<b>ZA2-BW09133</b>		
	220 V : 50 HZ	N/O	<b>ZA2-BW0413</b>	N/C + N/C	<b>ZA2-BW0443</b>
		N/C	<b>ZA2-BW0423</b>	N/C + N/O	<b>ZA2-BW0453</b>
		N/O + N/O	<b>ZA2-BW0433</b>		
	240 V : 50 HZ 220-240 V : 60 HZ	N/O	<b>ZA2-BW09413</b>	N/C + N/C	<b>ZA2-BW09443</b>
		N/C	<b>ZA2-BW09423</b>	N/C + N/O	<b>ZA2-BW09453</b>
		N/O + N/O	<b>ZA2-BW09433</b>		
	380 V : 50 HZ	N/O	<b>ZA2-BW0513</b>	N/C + N/C	<b>ZA2-BW0543</b>
		N/C	<b>ZA2-BW0523</b>	N/C + N/O	<b>ZA2-BW0553</b>
		N/O + N/O	<b>ZA2-BW0533</b>		
	415 V : 50 HZ	N/O	<b>ZA2-BW09313</b>	N/C + N/C	<b>ZA2-BW09343</b>
		N/C	<b>ZA2-BW09323</b>	N/C + N/O	<b>ZA2-BW09353</b>
		N/O + N/O	<b>ZA2-BW09333</b>		
	440-480 V : 60 HZ	N/O	<b>ZA2-BW09513</b>	N/C + N/C	<b>ZA2-BW09543</b>
		N/C	<b>ZA2-BW09523</b>	N/C + N/O	<b>ZA2-BW09553</b>
		N/O + N/O	<b>ZA2-BW09533</b>		
	500 V : 50 HZ	N/O	<b>ZA2-BW0813</b>	N/C + N/C	<b>ZA2-BW0843</b>
		N/C	<b>ZA2-BW0823</b>	N/C + N/O	<b>ZA2-BW0853</b>
		N/O + N/O	<b>ZA2-BW0833</b>		
	550-600 V : 60 HZ	N/O	<b>ZA2-BW09813</b>	N/C + N/C	<b>ZA2-BW09843</b>
		N/C	<b>ZA2-BW09823</b>	N/C + N/O	<b>ZA2-BW09853</b>
		N/O + N/O	<b>ZA2-BW09833</b>		
	Weight kg	1 contact :	0,100	2 contacts :	0,115

(1) **Type of bulb to use for direct supply** : incandescent bulbs, BA9S base fitting, U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C\*\*\* see page 502-18)

## Operating heads for illuminated pushbuttons

<b>Spring return pushbuttons</b>	Flush, flush with half guard, projecting, double headed operator	See pages 502-13 and 502-31
<b>Latching pushbuttons</b>	Ø 40 mm mushroom head. Turn to release	See page 502-27
<b>Selector switches</b>	Standard handle, 2 or 3 positions	See page 502-14

# Signalling units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

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## Complete bodies for illuminated pushbuttons

Supply	Supply voltage	Contact	Reference	Contact	Reference
<b>With contact blocks for low currents, screw and captive cable clamp connections</b>					
<b>Direct</b> bulb not supplied (1)	≤ 380 V	N/O	<b>ZA2-BW0616</b>	N/C + N/C	<b>ZA2-BW0646</b>
		N/C	<b>ZA2-BW0626</b>	N/C + N/O	<b>ZA2-BW0656</b>
		N/O + N/O	<b>ZA2-BW0636</b>		
	Weight kg	1 contact : 0,040		2 contacts : 0,055	
<b>With resistor</b> bulb BA9S-130 V supplied	220-250 V	N/O	<b>ZA2-BW0716</b>	N/C + N/C	<b>ZA2-BW0746</b>
		N/C	<b>ZA2-BW0726</b>	N/C + N/O	<b>ZA2-BW0756</b>
		N/O + N/O	<b>ZA2-BW0736</b>		
	Weight kg	1 contact : 0,045		2 contacts : 0,060	
<b>Via Integral transformer 1,2 VA</b> bulb BA9S-6 V supplied	24 V : 50-60 HZ	N/O	<b>ZA2-BW0116</b>	N/C + N/C	<b>ZA2-BW0146</b>
		N/C	<b>ZA2-BW0126</b>	N/C + N/O	<b>ZA2-BW0156</b>
		N/O + N/O	<b>ZA2-BW0136</b>		
	48 V : 50-60 HZ	N/O	<b>ZA2-BW0216</b>	N/C + N/C	<b>ZA2-BW0246</b>
		N/C	<b>ZA2-BW0226</b>	N/C + N/O	<b>ZA2-BW0256</b>
		N/O + N/O	<b>ZA2-BW0236</b>		
	110 V : 50 HZ 110-120 V : 60 HZ	N/O	<b>ZA2-BW0316</b>	N/C + N/C	<b>ZA2-BW0346</b>
		N/C	<b>ZA2-BW0326</b>	N/C + N/O	<b>ZA2-BW0356</b>
		N/O + N/O	<b>ZA2-BW0336</b>		
	127 V : 50 HZ	N/O	<b>ZA2-BW09116</b>	N/C + N/C	<b>ZA2-BW09146</b>
		N/C	<b>ZA2-BW09126</b>	N/C + N/O	<b>ZA2-BW09156</b>
		N/O + N/O	<b>ZA2-BW09136</b>		
	220 V : 50 HZ	N/O	<b>ZA2-BW0416</b>	N/C + N/C	<b>ZA2-BW0446</b>
		N/C	<b>ZA2-BW0426</b>	N/C + N/O	<b>ZA2-BW0456</b>
		N/O + N/O	<b>ZA2-BW0436</b>		
	240 V : 50 HZ 220-240 V : 60 HZ	N/O	<b>ZA2-BW09416</b>	N/C + N/C	<b>ZA2-BW09446</b>
		N/C	<b>ZA2-BW09426</b>	N/C + N/O	<b>ZA2-BW09456</b>
		N/O + N/O	<b>ZA2-BW09436</b>		
	380 V : 50 HZ	N/O	<b>ZA2-BW0516</b>	N/C + N/C	<b>ZA2-BW0546</b>
		N/C	<b>ZA2-BW0526</b>	N/C + N/O	<b>ZA2-BW0556</b>
		N/O + N/O	<b>ZA2-BW0536</b>		
	415 V : 50 HZ	N/O	<b>ZA2-BW09316</b>	N/C + N/C	<b>ZA2-BW09346</b>
		N/C	<b>ZA2-BW09326</b>	N/C + N/O	<b>ZA2-BW09356</b>
		N/O + N/O	<b>ZA2-BW09336</b>		
	440-480 V : 60 HZ	N/O	<b>ZA2-BW09516</b>	N/C + N/C	<b>ZA2-BW09546</b>
		N/C	<b>ZA2-BW09526</b>	N/C + N/O	<b>ZA2-BW09556</b>
		N/O + N/O	<b>ZA2-BW09536</b>		
	500 V : 50 HZ	N/O	<b>ZA2-BW0816</b>	N/C + N/C	<b>ZA2-BW0846</b>
		N/C	<b>ZA2-BW0826</b>	N/C + N/O	<b>ZA2-BW0856</b>
		N/O + N/O	<b>ZA2-BW0836</b>		
	550-600 V : 60 HZ	N/O	<b>ZA2-BW09816</b>	N/C + N/C	<b>ZA2-BW09846</b>
		N/C	<b>ZA2-BW09826</b>	N/C + N/O	<b>ZA2-BW09856</b>
		N/O + N/O	<b>ZA2-BW09836</b>		
	Weight kg	1 contact : 0,100		2 contacts : 0,115	

(1) Type of bulb to use for direct supply : incandescent bulbs, BA9S base fitting , U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C\*\*\* see page 502-18)

## Operating heads for illuminated pushbuttons

<b>Spring return pushbuttons</b>	Flush, flush with half guard, projecting, double headed operator	See pages 502-13 and 502-31
<b>Latching pushbuttons</b>	Ø 40 mm mushroom head Turn to release	See page 502-27
<b>Selector switches</b>	Standard handle, 2 or 3 positions	See page 502-14

# Signalling units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

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## Complete bodies for illuminated pushbuttons

Supply	Supply voltage	Contact	Reference	Contact	Reference
<b>With contact blocks for low current, with 6,3 mm clip connectors</b>					
<b>Direct bulb not supplied (1)</b>	≤ 380 V	N/O	<b>ZA2-BW0617</b>	N/C + N/C	<b>ZA2-BW0647</b>
		N/C	<b>ZA2-BW0627</b>	N/C + N/O	<b>ZA2-BW0657</b>
		N/O + N/O	<b>ZA2-BW0637</b>		
	Weight kg	1 contact :	0, 040	2 contacts :	0,055
<b>With resistor bulb BA9S-130 V supplied</b>	220-250 V	N/O	<b>ZA2-BW0717</b>	N/C + N/C	<b>ZA2-BW0747</b>
		N/C	<b>ZA2-BW0727</b>	N/C + N/O	<b>ZA2-BW0757</b>
		N/O + N/O	<b>ZA2-BW0737</b>		
	Weight kg	1 contact :	0, 045	2 contacts :	0,060
<b>Via integral transformer 1,2 VA bulb BA9S-6 V supplied</b>	24 V : 50-60 HZ	N/O	<b>ZA2-BW0117</b>	N/C + N/C	<b>ZA2-BW0147</b>
		N/C	<b>ZA2-BW0127</b>	N/C + N/O	<b>ZA2-BW0157</b>
		N/O + N/O	<b>ZA2-BW0137</b>		
48 V : 50-60 HZ	N/O	<b>ZA2-BW0217</b>	N/C + N/C	<b>ZA2-BW0247</b>	
	N/C	<b>ZA2-BW0227</b>	N/C + N/O	<b>ZA2-BW0257</b>	
	N/O + N/O	<b>ZA2-BW0237</b>			
110 V : 50 HZ 110-120 V : 60 HZ	N/O	<b>ZA2-BW0327</b>	N/C + N/C	<b>ZA2-BW0347</b>	
	N/C	<b>ZA2-BW0317</b>	N/C + N/O	<b>ZA2-BW0357</b>	
	N/O + N/O	<b>ZA2-BW0337</b>			
127 V : 50 HZ	N/O	<b>ZA2-BW09117</b>	N/C + N/C	<b>ZA2-BW09147</b>	
	N/C	<b>ZA2-BW09127</b>	N/C + N/O	<b>ZA2-BW09157</b>	
	N/O + N/O	<b>ZA2-BW09137</b>			
220 V : 50 HZ	N/O	<b>ZA2-BW0417</b>	N/C + N/C	<b>ZA2-BW0447</b>	
	N/C	<b>ZA2-BW0427</b>	N/C + N/O	<b>ZA2-BW0457</b>	
	N/O + N/O	<b>ZA2-BW0437</b>			
240 V : 50 HZ 220-240 V : 60 HZ	N/O	<b>ZA2-BW09417</b>	N/C + N/C	<b>ZA2-BW09447</b>	
	N/C	<b>ZA2-BW09427</b>	N/C + N/O	<b>ZA2-BW09457</b>	
	N/O + N/O	<b>ZA2-BW09437</b>			
380 V : 50 HZ	N/O	<b>ZA2-BW0517</b>	N/C + N/C	<b>ZA2-BW0547</b>	
	N/C	<b>ZA2-BW0527</b>	N/C + N/O	<b>ZA2-BW0557</b>	
	N/O + N/O	<b>ZA2-BW0537</b>			
415 V : 50 HZ	N/O	<b>ZA2-BW09317</b>	N/C + N/C	<b>ZA2-BW09347</b>	
	N/C	<b>ZA2-BW09327</b>	N/C + N/O	<b>ZA2-BW09357</b>	
	N/O + N/O	<b>ZA2-BW09337</b>			
440-480 V : 60 HZ	N/O	<b>ZA2-BW09517</b>	N/C + N/C	<b>ZA2-BW09547</b>	
	N/C	<b>ZA2-BW09527</b>	N/C + N/O	<b>ZA2-BW09557</b>	
	N/O + N/O	<b>ZA2-BW09537</b>			
500 V : 50 HZ	N/O	<b>ZA2-BW0817</b>	N/C + N/C	<b>ZA2-BW0847</b>	
	N/C	<b>ZA2-BW0827</b>	N/C + N/O	<b>ZA2-BW0857</b>	
	N/O + N/O	<b>ZA2-BW0837</b>			
550-600 V : 60 HZ	N/O	<b>ZA2-BW09817</b>	N/C + N/C	<b>ZA2-BW09847</b>	
	N/C	<b>ZA2-BW09827</b>	N/C + N/O	<b>ZA2-BW09857</b>	
	N/O + N/O	<b>ZA2-BW09837</b>			
	Weight kg	1 contact :	0,100	2 contacts :	0,115

(1) **Type of bulb to use for direct supply** : incandescent bulbs, BA9S base fitting, U ≤ 130 V, maximum power : 2,6 W, maximum Ø 11 mm, maximum length 28 mm or neon 110 V, 220 V or 380 V (DL1-C\*\*\* see page 502-18)

## Operating heads for illuminated pushbuttons

<b>Spring return pushbuttons</b>	Flush, flush with half guard, projecting, double headed operator	See pages 502-13 and 502-31
<b>Latching pushbuttons</b>	Ø 40 mm mushroom head Turn to release	See page 502-27
<b>Selector switches</b>	Standard handle, 2 or 3 positions	See page 502-14

# Signalling units Ø 22

circular head, insulated bezel

Adaptable sub-assemblies

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## Operating heads for double headed pushbuttons with pilot light (1)

Description	Colour of operators	Marking	Unit reference	Weight kg
<b>2 flush pushbuttons</b> <b>1 yellow pilot light</b> Degree of protection IP40	Black Black	Unmarked	<b>ZA2-BW81252</b>	0,030
	Green Green	Unmarked	<b>ZA2-BW81353</b>	0,030
	Black Red	Marche-Arrêt	<b>ZA2-BW85254</b>	0,030
		Start-Stop	<b>ZA2-BW87254</b>	0,030
	Green Red	Marche-Arrêt	<b>ZA2-BW85354</b>	0,030
		Start-Stop	<b>ZA2-BW87354</b>	0,030
<b>2 flush pushbuttons</b> <b>1 pilot light without lens</b> Degree of protection IP40	Black Black	Unmarked	<b>ZA2-BW81202</b>	0,030
	Green Green	Unmarked	<b>ZA2-BW81303</b>	0,030
	Black Red	Unmarked	<b>ZA2-BW81204</b>	0,030
		I-O	<b>ZA2-BW82204</b>	0,030
		Marche-Arrêt	<b>ZA2-BW85204</b>	0,030
		Start-Stop	<b>ZA2-BW87204</b>	0,030
	Green Red	Unmarked	<b>ZA2-BW81304</b>	0,030
		I-O	<b>ZA2-BW82304</b>	0,030
		Marche-Arrêt	<b>ZA2-BW85304</b>	0,030
		Start-Stop	<b>ZA2-BW87304</b>	0,030
<b>1 flush pushbutton</b> <b>1 yellow pilot light</b> <b>1 projecting pushbutton</b> Degree of protection IP40	Black Red	Marche-Arrêt	<b>ZA2-BW86254</b>	0,030
		Start-Stop	<b>ZA2-BW88254</b>	0,030
	Green Rouge	Marche-Arrêt	<b>ZA2-BW86354</b>	0,030
		Start-Stop	<b>ZA2-BW88354</b>	0,030
<b>1 flush pushbutton</b> <b>1 pilot light without lens</b> <b>1 projecting pushbutton</b> Degree of protection IP40	Black Red	Unmarked	<b>ZA2-BW83204</b>	0,030
		I-O	<b>ZA2-BW84204</b>	0,030
		Marche-Arrêt	<b>ZA2-BW86204</b>	0,030
		Start-Stop	<b>ZA2-BW88204</b>	0,030
	Green Red	Unmarked	<b>ZA2-BW83304</b>	0,030
		I-O	<b>ZA2-BW84304</b>	0,030
		Marche-Arrêt	<b>ZA2-BW86304</b>	0,030
		Start-Stop	<b>ZA2-BW88304</b>	0,030

(1) Assembly with ZA2-BWO... bodies, see pages 502-12 and 502-27 to 30.

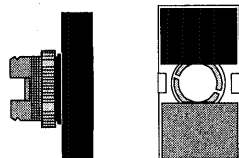
<b>Sealing boot</b>	Clear silicone	<b>ZB2-BW008</b>	0,005
Degree of protection IP65			

## Lenses

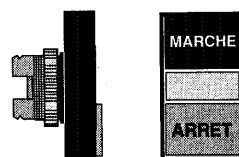
As spare parts or for adaptation	Sold in lots of 10	Green	<b>ZB2-BW903</b>	0,001
		Red	<b>ZB2-BW904</b>	0,001
		Yellow	<b>ZB2-BW905</b>	0,001
		Blue	<b>ZB2-BW906</b>	0,001
		Clear	<b>ZB2-BW907</b>	0,001



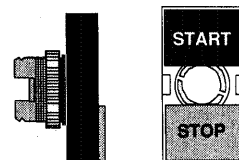
ZA2.BW85354



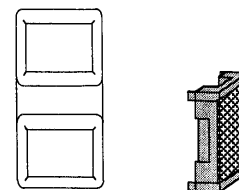
ZA2.BW81304



ZA2.BW86354



ZA2.BW88304



ZB2-BW008

ZB2.BW9...

# Control and signalling units Ø 22

## Square heads, insulated bezel

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page



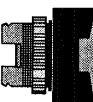
ZA2.CA.



ZA2.CL.



ZA2.CV0.



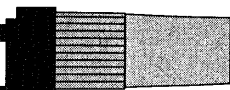
ZA2.CW3.



ZA2.CW1.



ZA2.CY1101



ZA2.CZ12

### Operating heads for spring return pushbuttons (1)

Description	Colour	Reference	Colour	Reference	Weight kg
Flush	White	ZA2-CA1	Red	ZA2-CA4	0,015
	Black	ZA2-CA2	Yellow	ZA2-CA5	0,015
	Green	ZA2-CA3	Blue	ZA2-CA6	0,015
Projecting	White	ZA2-CL1	Red	ZA2-CL4	0,015
	Black	ZA2-CL2	Yellow	ZA2-CL5	0,015
	Green	ZA2-CL3	Blue	ZA2-CL6	0,015

(1) Assembly with ZA2-BZ... bodies : see pages 502-05 and 502-22

### Operating heads for pilot lights (2)

Description	Colour	Reference	Colour	Reference	Weight kg
For incandescent bulbs	White	ZA2-CV01	Yellow	ZA2-CV05	0,015
	Green	ZA2-CV03	Blue	ZA2-CV06	0,015
	Red	ZA2-CV04	Clear	ZA2-CV07	0,015

(2) Assembly with ZA2-BV... bodies : see pages 502-11 and 502-26

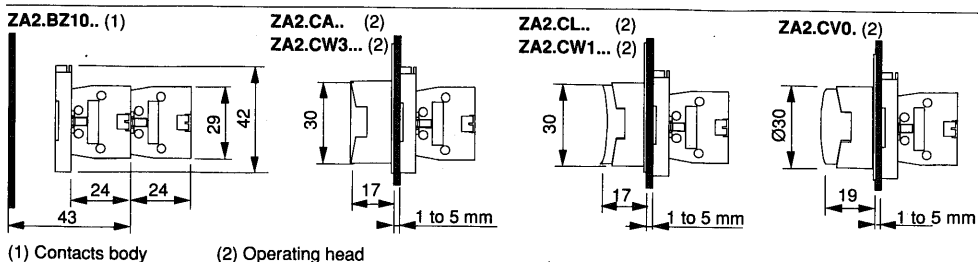
### Operating heads for illuminated pushbuttons (3)

Description	Colour	Reference	Colour	Reference	Weight kg
Flush	White	ZA2-CW31	Yellow	ZA2-CW35	0,015
	Green	ZA2-CW33	Blue	ZA2-CW36	0,015
	Red	ZA2-CW34	Clear	ZA2-CW37	0,015
Projecting	White	ZA2-CW11	Yellow	ZA2-CW15	0,015
	Green	ZA2-CW13	Blue	ZA2-CW16	0,015
	Red	ZA2-CW14	Clear	ZA2-CW17	0,015

(3) Assembly with ZA2-BW... bodies : see pages 502-12 and 502-27 to 502-30

### Spare parts

Description	Unit reference	Weight kg
Square legend plate	Transparent, unmarked Sold in lots of 10	ZA2-CY1101 0,001
Legend plate carrier	30 X 40 or 30 X 50 mm	See pages 502-15 and 502-34
Legend plate for legend plate carrier	8 X 27 or 18 X 27 mm	See page 502-17
Lens extractor	Pilot lights and illuminated pushbuttons	ZA2-CZ12 0,010



# Control and signalling units Ø 22

## Spare parts and accessories

### Legend plates for 30 X 40 mm legend plate carrier

"Start" functions : white characters on black background. "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
<b>Text in German</b>					
Ab	ZA2-BY4208	0,001	Rechts	ZA2-BY4209	0,001
Auf	ZA2-BY4207	0,001	Schnell	ZA2-BY4228	0,001
Betrieb	ZA2-BY4211	0,001	Störung	ZA2-BY4234	0,001
Ein	ZA2-BY4203	0,001	Vor	ZA2-BY4205	0,001
Langsam	ZA2-BY4227	0,001	Zurück	ZA2-BY4206	0,001
Links	ZA2-BY4210	0,001			

#### Text in English

Auto-Hand	ZA2-BY4364	0,001	Off-On	ZA2-BY4367	0,001
Auto-O-Hand	ZA2-BY4385	0,001	On	ZA2-BY4311	0,001
Close	ZA2-BY4314	0,001	Open	ZA2-BY4313	0,001
Down	ZA2-BY4308	0,001	Power on	ZA2-BY4326	0,001
Emergency Stop	ZA2-BY4330	0,001	Reset	ZA2-BY4323	0,001
Forward	ZA2-BY4305	0,001	Reverse	ZA2-BY4306	0,001
Hand-Off-Auto	ZA2-BY4387	0,001	Run	ZA2-BY4334	0,001
Inch	ZA2-BY4321	0,001	Start	ZA2-BY4303	0,001
Man-Auto	ZA2-BY4372	0,001	Stop	ZA2-BY4304	0,001
Off	ZA2-BY4312	0,001	Up	ZA2-BY4307	0,001

#### Text in Italian

Aggancio	ZA2-BY4631	0,001	Disinserito	ZA2-BY4632	0,001
Apertura	ZA2-BY4613	0,001	Emergenza	ZA2-BY4630	0,001
Arresto	ZA2-BY4604	0,001	Fuori servizio	ZA2-BY4612	0,001
Arresto generale	ZA2-BY4629	0,001	Indietro	ZA2-BY4606	0,001
Arresto-Marcia	ZA2-BY4666	0,001	Inser-Disinser	ZA2-BY4667	0,001
Arresto-riamo	ZA2-BY4633	0,001	In servizio	ZA2-BY4611	0,001
Auto-Man	ZA2-BY4664	0,001	Lento	ZA2-BY4627	0,001
Auto-O-Man	ZA2-BY4685	0,001	Marcia	ZA2-BY4603	0,001
Avanti	ZA2-BY4605	0,001	Riarmo	ZA2-BY4623	0,001
Avanti-O-Indietro	ZA2-BY4684	0,001	Salita	ZA2-BY4607	0,001
Chiusura	ZA2-BY4614	0,001	Sinistra	ZA2-BY4610	0,001
Destra	ZA2-BY4609	0,001	Sotto tensione	ZA2-BY4626	0,001
Discesa	ZA2-BY4608	0,001	Veloce	ZA2-BY4628	0,001

#### Special text (please state exact text when ordering)

For 30 X 40 mm legend plate carrier	Black background White characters	One off	ZA2-BY4002	0,001	
		2 to 10	ZA2-BY4002-02	0,001	
		More than 10	ZA2-BY4002-11	0,001	
	1 line 10 characters max	Red background Red characters	One off	ZA2-BY4004	0,001
			2 to 10	ZA2-BY4004-02	0,001
			More than 10	ZA2-BY4004-11	0,001
		White background Black characters	One off	ZA2-BY4001	0,001
			2 to 10	ZA2-BY4001-02	0,001
			More than 10	ZA2-BY4001-11	0,001
		Yellow background Black characters	One off	ZA2-BY4005	0,001
			2 to 10	ZA2-BY4005-02	0,001
			More than 10	ZA2-BY4005-11	0,001
For 30 X 50 mm legend plate carrier	Black background White characters	One off	ZA2-BY5002	0,001	
		2 to 10	ZA2-BY5002-02	0,001	
		More than 10	ZA2-BY5002-11	0,001	
	2 lines 10 characters max per line	Red background White characters	One off	ZA2-BY5004	0,001
			2 to 10	ZA2-BY5004-02	0,001
			More than 10	ZA2-BY5004-11	0,001
		White background Black characters	One off	ZA2-BY5001	0,001
			2 to 10	ZA2-BY5001-02	0,001
			More than 10	ZA2-BY5001-11	0,001
		Yellow background Black characters	One off	ZA2-BY5005	0,001
			2 to 10	ZA2-BY5005-02	0,001
			More than 10	ZA2-BY5005-11	0,001

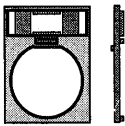
# Control and signalling units Ø 22

## Spare parts and accessories

### Legend plate carriers 30 X40 mm for "round aspect", with legend plate

"Start" functions : white characters on black background. "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
<b>Text in German</b>					
Ab	ZA2-BZ32208	0,001	Rechts	ZA2-BZ32209	0,001
Auf	ZA2-BZ32207	0,001	Schnell	ZA2-BZ32228	0,001
Betrieb	ZA2-BZ32211	0,001	Sturmung	ZA2-BZ32234	0,001
Ein	ZA2-BZ32203	0,001	Vor	ZA2-BZ32205	0,001
Langsam	ZA2-BZ32227	0,001	Zurück	ZA2-BZ32206	0,001
Links	ZA2-BZ32210	0,001			



ZA2.BZ32

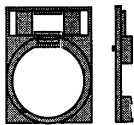
#### Text in English

Auto-Hand	ZA2-BZ32364	0,001	Off-On	ZA2-BZ32367	0,001
Auto-O-Hand	ZA2-BZ32385	0,001	On	ZA2-BZ32311	0,001
Close	ZA2-BZ32314	0,001	Open	ZA2-BZ32313	0,001
Down	ZA2-BZ32308	0,001	Power on	ZA2-BZ32326	0,001
Emergency stop	ZA2-BZ32330	0,001	Reset	ZA2-BZ32323	0,001
Forward	ZA2-BZ32305	0,001	Reverse	ZA2-BZ32306	0,001
Hand-Off-Auto	ZA2-BZ32387	0,001	Run	ZA2-BZ32334	0,001
Inch	ZA2-BZ32321	0,001	Start	ZA2-BZ32303	0,001
Man-Auto	ZA2-BZ32372	0,001	Stop	ZA2-BZ32304	0,001
Off	ZA2-BZ32312	0,001	Up	ZA2-BZ32307	0,001

### Legend plate carriers 30 X40 mm for "square aspect", with legend plate

"Start" functions : white characters on black background. "Stop" functions : white characters on red background

Text	Reference	Weight kg	Text	Reference	Weight kg
<b>Text in German</b>					
Ab	ZA2-BZ34208	0,001	Rechts	ZA2-BZ34209	0,001
Auf	ZA2-BZ34207	0,001	Schnell	ZA2-BZ34228	0,001
Betrieb	ZA2-BZ34211	0,001	Sturmung	ZA2-BZ34234	0,001
Ein	ZA2-BZ34203	0,001	Vor	ZA2-BZ34205	0,001
Langsam	ZA2-BZ34227	0,001	Zurück	ZA2-BZ34206	0,001
Links	ZA2-BZ34210	0,001			



ZA2.BZ34

#### Text in English

Auto-Hand	ZA2-BZ34364	0,001	Off-On	ZA2-BZ34367	0,001
Auto-O-Hand	ZA2-BZ34385	0,001	On	ZA2-BZ34311	0,001
Close	ZA2-BZ34314	0,001	Open	ZA2-BZ34313	0,001
Down	ZA2-BZ34308	0,001	Power on	ZA2-BZ34326	0,001
Emergency stop	ZA2-BZ34330	0,001	Reset	ZA2-BZ34323	0,001
Forward	ZA2-BZ34305	0,001	Reverse	ZA2-BZ34306	0,001
Hand-Off-Auto	ZA2-BZ34387	0,001	Run	ZA2-BZ34334	0,001
Inch	ZA2-BZ34321	0,001	Start	ZA2-BZ34303	0,001
Man-Auto	ZA2-BZ34372	0,001	Stop	ZA2-BZ34304	0,001
Off	ZA2-BZ34312	0,001	Up	ZA2-BZ34307	0,001

### Circular legend plates (for transparent pushbuttons, pilot lights and illuminated pushbuttons)

Text in German					Weight kg
AB	AUF	AUS	EIN	ZU	
ZB2.BY1208	ZB2.BY1207	ZB2.BY1204	ZB2.BY1203	ZB2.BY1214	0,001
<b>Text in English</b>					
HAND	OFF	ON	START	STOP	
ZB2.BY1316	ZB2.BY1312	ZB2.BY1311	ZB2.BY1303	ZB2.BY1304	0,001

#### Other versions

ZB2-BY\*\*\* circular legend plates with motion and speed symbols, part symbols, operational and safety symbols.  
See chapter XB2-B pages 501-56 to 501-60