

# Pendant control stations

Double insulated, type XAC-A  
For control circuits

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## Characteristics

### Environment

<b>Conforming to standards</b>		IEC 947-5-1, EN 60 947-5-1, IEC 337-1, VDE 0660-200
<b>Approvals</b>		NEMKO. Special version : UL Listed A600-Q600, CSA A600-Q600
<b>Protective treatment</b>		Standard version : "TH"
<b>Ambient air temperature</b>	°C	Operation : - 25... + 70. Storage : - 40... + 70
<b>Vibration resistance</b>		15 gn (10...500 Hz) conforming to IEC 68-2-6
<b>Shock resistance</b>		100 gn conforming to IEC 68-2-27
<b>Electric shock protection</b>		Class II conforming to IEC 536 and NF C 20-030
<b>Degree of protection</b>		IP 65 conforming to IEC 529 ; IP 657 conforming to NF C 20-010
<b>Mechanical durability</b>	<b>Op. cycles</b>	1 million
<b>Enclosure</b>		Double insulated polypropylene, coloured yellow throughout
<b>Cable entry</b>		Rubber sleeve with stepped entry diameter for cable $\varnothing 8... \varnothing 26$ mm

### Contact block characteristics

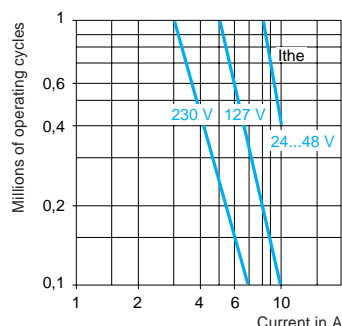
<b>Rated operational characteristics</b>		ZB2-BE●●●, XEN-G●●●●, XAC-S●●●● : $\sim$ AC-15 : A600 or $U_e = 600$ V, $I_e = 1.2$ A or $U_e = 240$ V, $I_e = 3$ A $\equiv$ DC-13 : Q600 or $U_e = 600$ V, $I_e = 0.1$ A or $U_e = 250$ V, $I_e = 0.27$ A XEN-T●●●● : $\sim$ AC-15 : A300 or $U_e = 240$ V, $I_e = 3$ A $\equiv$ DC-13 : Q300 or $U_e = 250$ V, $I_e = 0.27$ A conforming to IEC 947-5-1 Appendix A
<b>Thermal current (I<sub>the</sub>)</b>	<b>A</b>	10
<b>Rated insulation voltage (U<sub>i</sub>)</b>	<b>V</b>	ZB2-BE●●●, XEN-G●●●●, XAC-S●●●● : 600, degree of pollution 3 XEN-T●●●● : 400, degree of pollution 3 conforming to IEC 947-1
<b>Rated impulse withstand voltage (U<sub>imp</sub>)</b>	<b>kV</b>	6 conforming to IEC 947-1
<b>Positive operation</b>		Mushroom head pushbutton : N/C contact with positive opening operation to IEC 947-5-1 Section 3
<b>Contact operation</b>		N/C or N/O slow break
<b>Resistance across terminals</b>	<b>mΩ</b>	≤ 25
<b>Operating force</b>	<b>N</b>	Operators - with 1 N/O contact : 10 - with 1 N/C contact : 8 - with additional N/O contact : + 5 - with additional N/C contact : + 3
<b>Terminal referencing</b>		Conforming to CENELEC EN 50013
<b>Short-circuit protection</b>		10 A cartridge fuse type gG (gl)
<b>Cabling</b>	<b>mm<sup>2</sup></b>	Screw and captive cable clamp terminals. Capacity : min. 1 x 0.5, max., with or without cable end : 2 x 1.5 or 1 x 2.5 mm <sup>2</sup> . 6.3 mm Faston connectors (on request), please consult your Regional Sales Office.

### Rated operational power

Conforming to IEC 947-5-1 Appendix C. Utilisation categories AC-15 and DC-13.  
 Operating rate : 3600 operating cycles/hour. Load factor : 0.5

**a.c. supply**  $\sim$  50/60 Hz  
 $\sim$  Inductive circuit

**d.c. supply**  $\equiv$   
 Power broken in W  
 for 1 million operating cycles



Voltage V	24	48	120
$\sim$ W	65	48	40

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For control circuits  
Variable composition stations, pre-assembled  
Replacement empty enclosures  
References

## Stations for assembly by Telemecanique (see Order form, page 30075/17)



XAC-A029



XAC-A129



XAC-A039

Description	Number of ways	Reference	Weight kg
<b>Enclosure</b> comprising : - the enclosure, - internal mounting plate, - cable sleeve for Ø 8 to 26 mm cable, - internal cable clamp, - suspension ring, - cable tie (for tightening sleeve onto cable).	2	<b>XAC-A029</b>	0.440
	3	<b>XAC-A039 (1)</b>	0.440
	4	<b>XAC-A049</b>	0.540
	5	<b>XAC-A059 (1)</b>	0.540
	6	<b>XAC-A069</b>	0.665
	8	<b>XAC-A089</b>	0.770
	12	<b>XAC-A129</b>	1.000
<b>Equipment</b> : contact blocks, operating heads and signalling units, complementary accessories		See separate components pages 30075/8 to 30075/13	

## Replacement empty enclosures



XAC-A02



XAC-A12



XAC-A03

Description	Number of ways	Reference	Weight kg
<b>Enclosure</b> comprising : - the enclosure, - internal mounting plate, - cable sleeve for Ø 8 to 26 mm cable, - internal cable clamp, - suspension ring, - cable tie (for tightening sleeve onto cable).	2	<b>XAC-A02</b>	0.440
	3	<b>XAC-A03 (1)</b>	0.440
	4	<b>XAC-A04</b>	0.540
	5	<b>XAC-A05 (1)</b>	0.540
	6	<b>XAC-A06</b>	0.665
	8	<b>XAC-A08</b>	0.770
	12	<b>XAC-A12</b>	1.000

(1) Enclosures with 3 cut-outs (XAC-A039 and XAC-A03) cannot be fitted with a mounting adaptor for base mounted units.

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### Contact blocks for front mounting



ZB2-BE101  
ZB2-BE102



XEN-G1191  
XEN-G1491



XEN-G3781  
XEN-G3791



XEN-T1192

Description	Application	Function	Scheme	Reference	Weight kg
<b>Single block, spring return slow break</b>	Single speed	N/O		<b>ZB2-BE101</b>	0.015
		N/C		<b>ZB2-BE102</b>	0.015
<b>Double block, latching slow break (2)</b>	2-speed	N/C + N/O + N/O simultaneous (1)		<b>XEN-G1491</b>	0.040
		N/C + N/O + N/O staggered (1)		<b>XEN-G1191</b>	0.040
		N/O		<b>XEN-G3781</b>	0.060
<b>Double block, latching slow break (2)</b>	Single speed	N/O		<b>XEN-G3781</b>	0.060
		N/C		<b>XEN-G3791</b>	0.060

### Isolating switch, slow break, for front mounting

For mounting in enclosures	Application	Function	Scheme	Reference	Weight kg
XAC-A039 (frontal cut-out) XAC-A049, A069, A089 (frontal or base cut-out)	'Emergency stop'	1 N/C + N/C + N/C with positive opening operation		<b>XEN-T1192</b>	0.050

(1) Only for use with XAC-A9●●● operators.

(2) Not suitable for use with the following operating heads : ZA2-BB, ZA2-BD, ZA2-BG and ZA2-BS.

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### Contact blocks for base mounting



XAC-S10●

Description	Function	Scheme	Reference	Weight kg
<b>Spring return</b> slow break (1)	N/O		<b>XAC-S101</b>	0.030
	N/C		<b>XAC-S102</b>	0.030
	N/O + N/O		<b>XAC-S103</b>	0.045
	N/C + N/C		<b>XAC-S104</b>	0.045
	N/C + N/O		<b>XAC-S105</b>	0.045

### Pilot light bodies for front mounting



ZB2-BV006



ZB2-BV007

Description	Supply voltage	Scheme	Reference	Weight kg
<b>Direct supply</b> Bulb not included (2)	≤ 400 V		<b>ZB2-BV006</b>	0.015
<b>Direct supply, through resistor</b> Incandescent BA 9s base fitting 130 V bulb supplied	230 V		<b>ZB2-BV007</b>	0.020

(1) Not suitable for use with 3-position operating heads ZA2-BD and ZA2-BG or for mounting in enclosures XAC-A039 and XAC-A03.

(2) Bulb types for use with direct supply : BA 9s base fitting incandescent bulb  $U \leq 130$  V or neon bulb  $110$  V  $\leq U \leq 400$  V; maximum power 2.6 W, maximum  $\varnothing$  11 mm, maximum length 28 mm. See page 30075/11.

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## References

### Operating heads for front mounting



XAC-A94●●



ZA2-BC4



ZA2-BS54



ZA2-BS14



ZA2-BD●



ZA2-BG●



ZA2-BB●

Description	Colour	Sold in lots of	Unit reference	Weight kg
<b>Booted operators</b> , complete	White	10	<b>XAC-A9411</b>	0.010
	Black	10	<b>XAC-A9412</b>	0.010
	Green	10	<b>XAC-A9413</b>	0.010
	Red	10	<b>XAC-A9414</b>	0.010
	Yellow	10	<b>XAC-A9415</b>	0.010
	Blue	10	<b>XAC-A9416</b>	0.010
	Brown	10	<b>XAC-A9419</b>	0.010

### Operating heads for front or base mounting

Description	Colour	Type	Reference	Weight kg
<b>Mushroom head, spring return</b> (Normal stop)	Red	Ø 30 mm	<b>ZA2-BC44</b>	0.028
		Ø 40 mm	<b>ZA2-BC4</b>	0.033
<b>Mushroom head, latching</b> Turn to release (Emergency stop)	Red	Ø 30 mm	<b>ZA2-BS44</b>	0.028
		Ø 40 mm	<b>ZA2-BS54</b>	0.033
<b>Mushroom head, latching</b> Key release - Ronis n° 455 Key withdrawal in rest (unactuated) position (Emergency stop)	Red	Ø 30 mm	<b>ZA2-BS74</b>	0.060
		Ø 40 mm	<b>ZA2-BS14</b>	0.065
<b>Selector switches, standard handle</b> (Not to be used with XEN-G●●●● contact blocks)	Black	2 position stay put	<b>ZA2-BD2</b>	0.018
		3 position stay put (1)	<b>ZA2-BD3</b>	0.018
<b>Key switches</b> (Ronis key n° 455) Key withdrawal in left and right hand positions	-	2 position stay put	<b>ZA2-BG4</b>	0.042
		3 position stay put (1)	<b>ZA2-BG5</b>	0.042
<b>Wobblesticks</b> (2) Operates in all directions, for "Fast stop" function	Black	-	<b>ZA2-BB2</b>	0.060
	Red	-	<b>ZA2-BB4</b>	0.060

(1) Only suitable for front mounting.  
(2) Base mounting recommended

### Other versions

Key release mushroom head pushbuttons with other key numbers.  
Selector switches with other mechanical functions.  
Key switches with other mechanical functions or Ronis key numbers.  
Please consult your Regional Sales Office.

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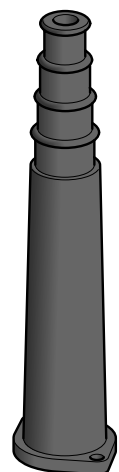
ZA2-BV00



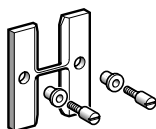
DL1-C



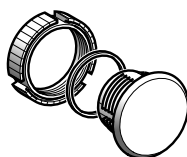
DL1-CF



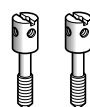
XAC-A960



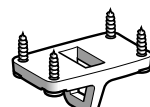
XAC-A009



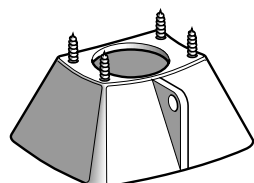
ZB2-SZ3



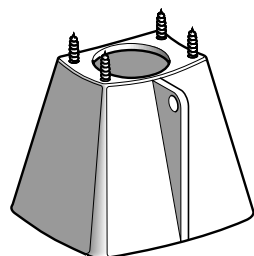
XAC-B961



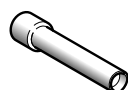
XAC-A971



XAC-A982



XAC-A983



XBF-X13

## Pilot light heads

Description	Colour	Reference	Weight kg
<b>For use with incandescent bulbs</b>			
<b>Lens cap</b> with fixing bezel	White	ZA2-BV01	0.015
	Green	ZA2-BV03	0.015
	Red	ZA2-BV04	0.015
	Yellow	ZA2-BV05	0.015
	Blue	ZA2-BV06	0.015
	Clear	ZA2-BV07	0.015

### For use with neon bulbs

<b>Lens cap</b> with fixing bezel	Green	ZA2-BV033	0.015
	Red	ZA2-BV043	0.015
	Yellow	ZA2-BV053	0.015
	Clear	ZA2-BV073	0.015

### Bulbs (Sold in lots of 10)

Description	Voltage	Unit reference	Weight kg
<b>Incandescent</b> BA 9s base fitting Maximum power : 2.6 W Maximum Ø : 11 mm Maximum length : 28 mm	6 V	DL1-CB006	0.002
	12 V	DL1-CE012	0.002
	24 V	DL1-CE024	0.002
	48 V	DL1-CE048	0.002
<b>Neon</b> BA 9s base fitting Maximum power : 2.6 W Maximum Ø : 11 mm Maximum length : 28 mm	130 V	DL1-CE130	0.002
	110 V	DL1-CF110	0.002
	230 V	DL1-CF220	0.002
	400 V	DL1-CF380	0.002

## Complementary accessories, tools

Description	Reference	Weight kg
<b>Protective cable sleeve</b>	For cable Ø 8 to 22 mm	XAC-A950
	For cable Ø 8 to 26 mm	XAC-A960
<b>Mechanical interlock for 2 operators</b>	With fixing screws	XAC-A009
<b>Blanking plug</b>	With seal and fixing nut	ZB2-SZ3
<b>Adaptor for self-supporting cable type BBAP</b>	Mounted with protective sleeve for cable Ø 8 to 26 mm	XAC-B961
<b>Lower support ring</b>	–	XAC-A971
<b>Protective guards for base mounted units</b>	For selector switch (std. handle) or mushroom head pushbutton	XAC-A982
	For key switch or key release latching mushroom head pushbutton	XAC-A983
<b>Bulb extractor</b>	For BA 9s base fitting bulbs	XBF-X13

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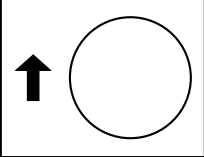





























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Legend plates 30 x 40 mm with symbols conforming to NF E 52-124

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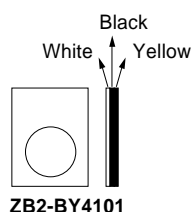
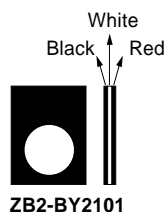
Function Symbol	Reference	Weight kg	Function Symbol	Reference	Weight kg
					
Raise, slow	<b>ZB2-BY4901</b>	0.001	Lower, slow	<b>ZB2-BY2904</b>	0.001
					
Raise, fast	<b>ZB2-BY4902</b>	0.001	Lower, fast	<b>ZB2-BY2905</b>	0.001
					
Raise, slow-fast	<b>ZB2-BY4903</b>	0.001	Lower, slow-fast	<b>ZB2-BY2906</b>	0.001
					
Right, slow	<b>ZB2-BY4907</b>	0.001	Left, slow	<b>ZB2-BY2910</b>	0.001
					
Right, fast	<b>ZB2-BY4908</b>	0.001	Left, fast	<b>ZB2-BY2911</b>	0.001
					
Right, slow-fast	<b>ZB2-BY4909</b>	0.001	Left, slow-fast	<b>ZB2-BY2912</b>	0.001
					
Forward, slow	<b>ZB2-BY4913</b>	0.001	Reverse, slow	<b>ZB2-BY2916</b>	0.001
					
Forward, fast	<b>ZB2-BY4914</b>	0.001	Reverse, fast	<b>ZB2-BY2917</b>	0.001
					
Forward, slow-fast	<b>ZB2-BY4915</b>	0.001	Reverse, slow-fast	<b>ZB2-BY2918</b>	0.001
					
Slew right, slow	<b>ZB2-BY4919</b>	0.001	Slew left, slow	<b>ZB2-BY2922</b>	0.001
					
Slew right, fast	<b>ZB2-BY4920</b>	0.001	Slew left, fast	<b>ZB2-BY2923</b>	0.001
					
Slew right, slow-fast	<b>ZB2-BY4921</b>	0.001	Slew left, slow-fast	<b>ZB2-BY2924</b>	0.001
					
Slow	<b>ZB2-BY4933</b>	0.001	Fast	<b>ZB2-BY4934</b>	0.001
					
Klaxon	<b>ZB2-BY4932</b>	0.001	Start-Klaxon	<b>ZB2-BY4935</b>	0.001
					
Start	<b>ZB2-BY4930</b>	0.001	Stop	<b>ZB2-BY2931</b>	0.001

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Legend plates 30 x 40 mm

## References



Text	Reference	Weight kg	Text	Reference	Weight kg
"Start" functions : white characters on black background. "Stop" functions : white characters on red background.					
<b>Blank</b>					
Black or red background	<b>ZB2-BY2101</b>	0.001	White or yellow background	<b>ZB2-BY4101</b>	0.001
<b>With standard French texts</b>			<b>With standard English texts</b>		
For pushbuttons					
Marche	<b>ZB2-BY2103</b>	0.001	Start	<b>ZB2-BY2303</b>	0.001
Arrêt	<b>ZB2-BY2104</b>	0.001	Stop	<b>ZB2-BY2304</b>	0.001
Avant	<b>ZB2-BY2105</b>	0.001	Forward	<b>ZB2-BY2305</b>	0.001
Arrière	<b>ZB2-BY2106</b>	0.001	Reverse	<b>ZB2-BY2306</b>	0.001
Montée	<b>ZB2-BY2107</b>	0.001	Up	<b>ZB2-BY2307</b>	0.001
Descente	<b>ZB2-BY2108</b>	0.001	Down	<b>ZB2-BY2308</b>	0.001
Droite	<b>ZB2-BY2109</b>	0.001	Right	<b>ZB2-BY2309</b>	0.001
Gauche	<b>ZB2-BY2110</b>	0.001	Left	<b>ZB2-BY2310</b>	0.001
En service	<b>ZB2-BY2111</b>	0.001	On	<b>ZB2-BY2311</b>	0.001
Hors service	<b>ZB2-BY2112</b>	0.001	Off	<b>ZB2-BY2312</b>	0.001
Sous tension	<b>ZB2-BY2126</b>	0.001	Power on	<b>ZB2-BY2326</b>	0.001
Lent	<b>ZB2-BY2127</b>	0.001	Slow	<b>ZB2-BY2327</b>	0.001
Vite	<b>ZB2-BY2128</b>	0.001	Fast	<b>ZB2-BY2328</b>	0.001
Klaxon	<b>ZB2-BY2125</b>	0.001	-	-	-
For selector switches					
Arrêt-Marche	<b>ZB2-BY2166</b>	0.001	-	-	-
Hors-en	<b>ZB2-BY2167</b>	0.001	Off-On	<b>ZB2-BY2367</b>	0.001
<b>With special texts</b> (to be specified when ordering)					
2 lines maximum, 11 characters per line.					
White characters on black background	<b>ZB2-BY2002</b>	0.001	Black characters on white background	<b>ZB2-BY4001</b>	0.001
White characters on red background	<b>ZB2-BY2004</b>	0.001	Black characters on yellow background	<b>ZB2-BY4005</b>	0.001

## Other versions

Legend plates with texts in other languages.  
Please consult your Regional Sales Office.



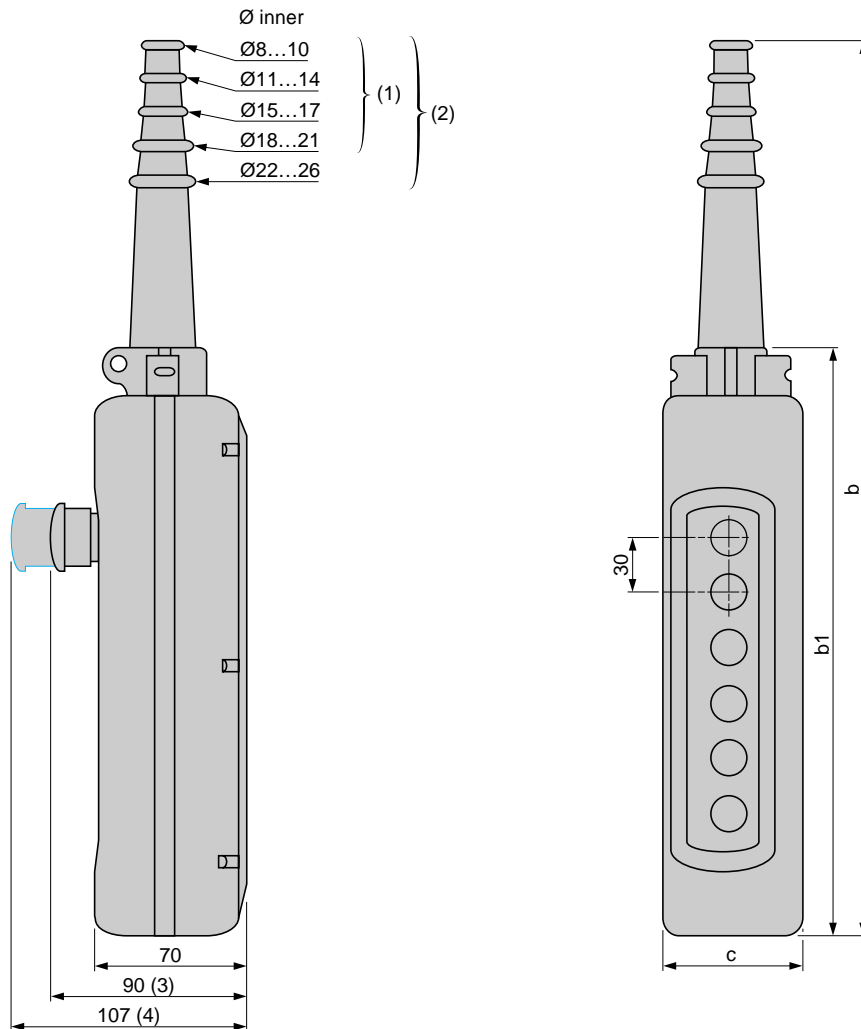
# Pendant control stations

Double insulated, type XAC-A  
For control circuits

Characteristics :  
page 30075/2  
References :  
pages 30075/3 to 30075/13  
Schemes :  
page 30075/15

## Dimensions

### XAC-A pendant stations for control circuits

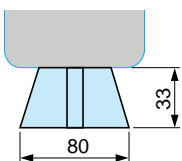


Number of ways	2	3	4	5	6	8	12
b	314	314	440	440	500	560	680
b1	190	190	250	250	310	370	490
c	80	80	80	80	80	80	92

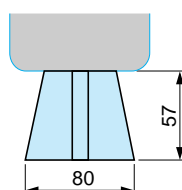
- (1) For 2 and 3-way XAC-A stations  
(2) For 4 to 8-way XAC-A stations  
(3) With mushroom head operator  
(4) Avec bouton "coup de poing" infraudable

### Protective guards for base mounted units

#### XAC-A982



#### XAC-A983



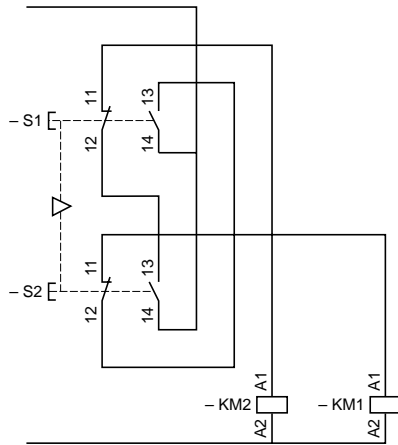
# Pendant control stations

Double insulated, type XAC-A  
For control circuits

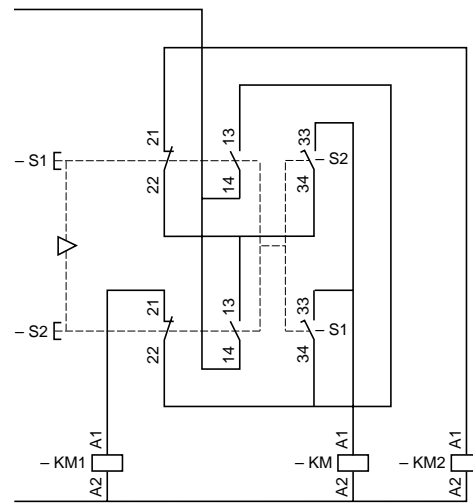
Characteristics :  
page 30075/2  
References :  
pages 30075/3 to 30075/13  
Dimensions :  
page 30075/14

Schemes - typical application examples

**For control of single-speed reversing motor**  
(Contact blocks **ZB2-BE101 + ZB2-BE102**)



**For control of 2-speed reversing motor**  
(2 contact blocks **XEN-G1191**)



KM : high speed contactor

