

Pendant control stations **XAC**

Catalogue
April

04



a brand of
Schneider
Electric

 **Telemecanique**

Selection guide *pages 2 and 3*

Pendant control stations :

■ **Type XAC-A, “Pistol grip”**

- Characteristic *page 4*
- Reference *pages 5 and 6*
- Dimensions, Schemes *page 7*

■ **Type XAC-D**

- Characteristic *pages 8 and 10*
- Reference *pages 9, 11, 12 and 13*
- Dimensions *page 14*
- Schemes *page 15*
- Order form *pages 16 and 17*

■ **Type XAC-A**

- Characteristic *page 18*
- Reference *pages 19 to 29*
- Dimensions *page 30*
- Schemes *page 31*
- Order form *pages 32 and 33*

































■ **Types XAC-B and XAC-M**

- Characteristic *pages 34, 36 and 48*
- Reference *pages 35, 37 to 47, 49 to 54*
- Dimensions *page 55*
- Schemes *pages 56 and 57*
- Order form *pages 58 and 59*

■ **Type XAC-F**

- Characteristic *page 60*
- Reference *page 61*
- Dimensions *page 62*
- Schemes *page 63*
- Order form *pages 64 and 65*

■

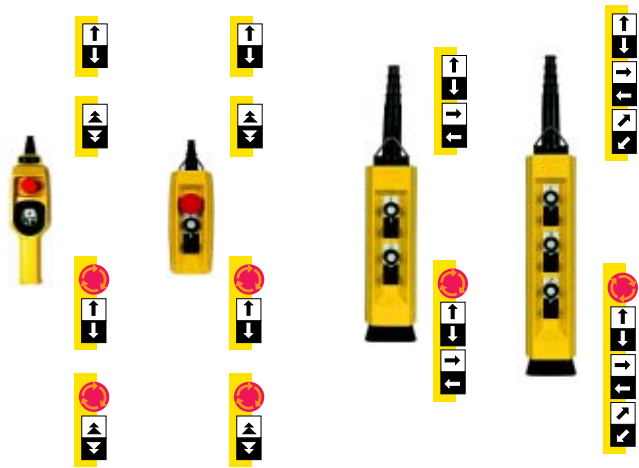
Applications	Control circuits		Simple hoisting: 1 movement		Handling-hoisting: 2 movements	
Motor control						
 single-speed						
 2-speed						
Complete stations "ready for use"						
Motor control						
 single-speed						
 2-speed						
 Emergency stop						
No. of pushbuttons	2	1 rocker type	2	2	4	4
Enclosure material	Polypropylene	Polypropylene	Polypropylene	Polyester	Polypropylene	Polyester
Control station type references	XAC-A	XAC-D	XAC-A	XAC-B	XAC-A	XAC-B
Pages	5	9	19	35	20	35
Applications	Control circuits		1 or 2		2, 3, 4, 5, 6, 8 or 12	
Number of cut-outs	1 or 2		2, 3, 4, 5, 6, 8 or 12		2, 3, 4, 6, 8 or 12 in 1 row of 12 or 2 rows of 6	
For assembly by the customer						
Equipment	Front mounted emergency stop Contact blocks for 1 or 2 speeds		Pushbuttons, selector switches, pilot lights, front or end mounted emergency stop, wobble sticks, contact blocks for 1 or 2 speeds		Pushbuttons, selector switches, pilot lights, front or end mounted emergency stop, wobble sticks, contact blocks for 1 or 2 speeds	
Enclosure material	Polypropylene		Polypropylene		Polyester	
Control station type references	XAC-D		XAC-A		XAC-B	
Pages	12 and 13		23 to 29		39 to 54	

Handling-hoisting: 3 movements

Power circuits

Simple hoisting: 1 movement

Handling-hoisting:
2 movements 3 movements



6	6	8	8	1 rocker switch	2	4	6
Polypropylene	Polyester	Polypropylene	Polyester	Polypropylene	Polyester	Polyester	Polyester
XAC-A	XAC-B	XAC-A	XAC-B	XAC-D	XAC-B	XAC-B	XAC-B
20	35	21	35	11	37	37	38

4 or 8

Up to 30

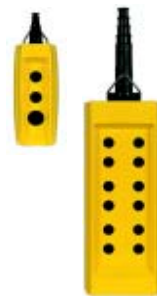
Power circuits

1 or 2

2, 3, 4, 6, 8 or 12 in 2 rows of 6

For maintenance only

For maintenance only



Pushbuttons, selector switches, pilot lights, front or end mounted emergency stop, wobble sticks, contact blocks for 1 or 2 speeds

Pushbuttons, selector switches, pilot lights, front or end mounted emergency stop, wobble sticks, contact blocks for 1 or 2 speeds

Front mounted emergency stop
Contact blocks for 1 or 2 speeds

Pushbuttons, selector switches, pilot lights, front or end-mounted emergency stop, wobble sticks, contact blocks for 1 or 2 speeds

Aluminium

Polyester

Polypropylene

Polyester

XAC-M

XAC-F

XAC-D

XAC-B

Please consult your regional sales office.

Please consult your regional sales office.

12 and 13

39 to 54

Pendant control stations

Double insulated with intuitive operation, type XAC-A
"Pistol grip"

For control circuits

Environment

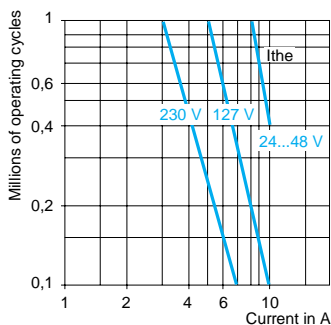
Conforming to standards		IEC 947-5-1, EN 60947-5-1 For stations with Emergency stop : EN 60204-1, EN 60204-32, EN 292-2, EN 418
Approvals		UL type 4X A600-Q600, CSA type 4 A600-Q600
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10... 500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	1 million
Enclosure		Double insulated polypropylene, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 7...Ø 15 mm

Contact block characteristics

Rated operational characteristics		\sim AC-15 : A 600 or $U_e = 600$ V, $I_e = 1.2$ A or $U_e = 240$ V, $I_e = 3$ A \equiv DC-13 : Q 600 or $U_e = 600$ V, $I_e = 0.1$ A or $U_e = 250$ V, $I_e = 0.27$ A conforming to IEC 947-5-1 Appendix A
Thermal current (I _{the})	A	10
Rated insulation voltage (U _i)	V	600, degree of pollution 3 conforming to IEC 947-1
Rated impulse withstand voltage (U _{imp})	kV	6 conforming to IEC 947-1
Positive operation		Mushroom head pushbutton : N/C contact with positive opening operation conforming to IEC 947-5-1 Section 3
Contact operation		Slow break
Resistance across terminals	mΩ	≤ 25
Operating force	N	13 to 15
Terminal referencing		By numbers conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Cabling	mm ²	Screw and captive cable clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end

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

Pendant control stations

Double insulated with intuitive operation, type XAC-A
"Pistol grip"

For control circuits


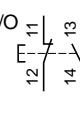

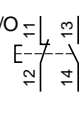
Complete stations "ready for use"

For control of single-speed hoist motors 



XAC-A201

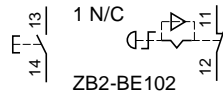
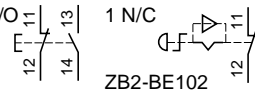
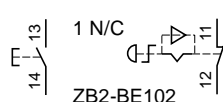
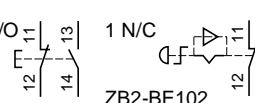
XAC-A211

Number of operators	Type of operators	Contact block(s) and scheme Per direction	'Emergency stop'	Reference	Weight kg
2 mechanically interlocked	Standard	1 N/O ZB2-BE101		-	XAC-A201 0.270
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A205 0.300
	Booted	1 N/O ZB2-BE101		-	XAC-A211 0.290
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A215 0.320



XAC-A2013

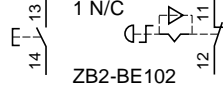
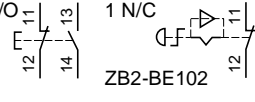
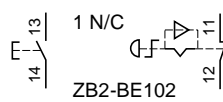
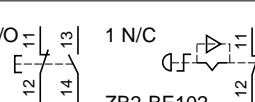
XAC-A2113

2 mechanically interlocked + 1 latching 'Emergency stop' Ø 30 mm operator ZA2-BS44	Standard	1 N/O ZB2-BE101		-	XAC-A2013 0.310
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A2053 0.340
	Booted	1 N/O ZB2-BE101		-	XAC-A2113 0.310
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A2153 0.340



XAC-A2014

XAC-A2114

2 mechanically interlocked + 1 trigger action latching 'Emergency stop' Ø 30 mm operator ZA2-BS834	Standard	1 N/O ZB2-BE101		-	XAC-A2014 0.310
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A2054 0.340
	Booted	1 N/O ZB2-BE101		-	XAC-A2114 0.310
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A2154 0.340

Pendant control stations

Double insulated with intuitive operation, type XAC-A
"Pistol grip"

For control circuits

Complete stations "ready for use", accessories and spare parts

For control of 2-speed hoist motors



XAC-A207



XAC-A217



XAC-A207●



XAC-A217●



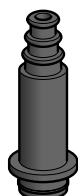
XAC-A921



XAC-A923



ZB2-BE●●●



XAC-A913

Number of operators	Type of operators	Contact block(s) and schemes Per direction	'Emergency stop'	Reference	Weight kg
2 mechanically interlocked	Standard	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		-	XAC-A207 0.320
	Booted	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		-	XAC-A217 0.320
2 mechanically interlocked + 1 latching 'Emergency stop' Ø 30 mm operator ZA2-BS44	Standard	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		1 N/C ZB2-BE102	XAC-A2073 0.360
	Booted	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		1 N/C ZB2-BE102	XAC-A2173 0.360
2 mechanically interlocked + 1 trigger action latching 'Emergency stop' Ø 30 mm operator ZA2-BS834	Standard	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		1 N/C ZB2-BE102	XAC-A2074 0.360
	Booted	2 step 1 N/O + 1 N/O staggered ZB2-BE101 + ZB2-BE201		1 N/C ZB2-BE102	XAC-A2174 0.360

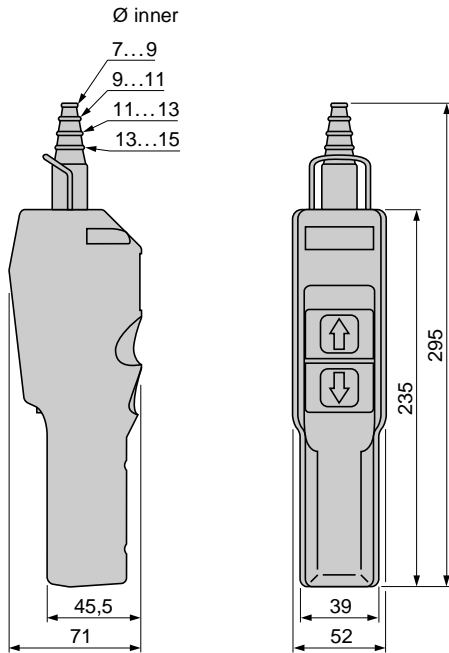
Accessories and spare parts

Description	Application	Marking/Function	Scheme	Reference	Weight kg
Booted pushbutton operators with fixing screws	XAC-A211● XAC-A215● (Single-speed)	↑	-	XAC-A921	0.010
		↓	-	XAC-A922	0.010
	XAC-A217● (2-speed)	▲	-	XAC-A923	0.010
		▼	-	XAC-A924	0.010
Contact blocks spring return, slow break	XAC-A all models	N/O		ZB2-BE101	0.015
		N/C		ZB2-BE102	0.015
		N/O staggered		ZB2-BE201	0.015
Protective cable sleeve + suspension ring + cable clamp	Cable Ø 7 to 13 mm	-	-	XAC-A913	0.070

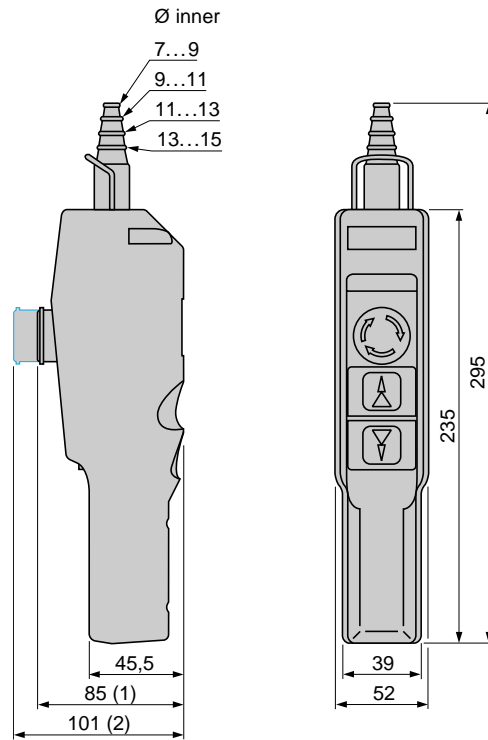
Pendant control stations

Double insulated with intuitive operation, type XAC-A
"Pistol grip"
For control circuits

Dimensions
XAC-A2●●

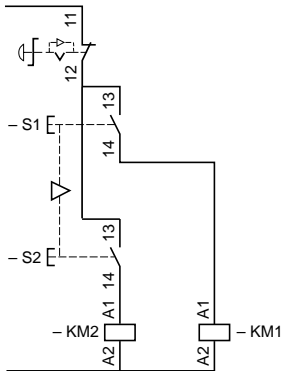


XAC-A2●●●

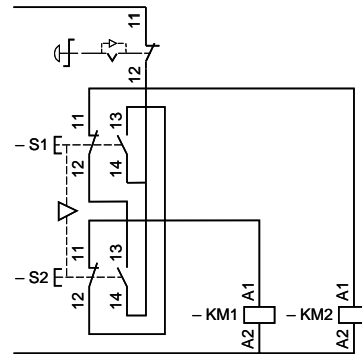


- (1) With standard latching Ø 30 mm 'Emergency stop' ZA2-BS44.
- (2) With trigger action latching Ø 30 mm 'Emergency stop' ZA2-BS834.

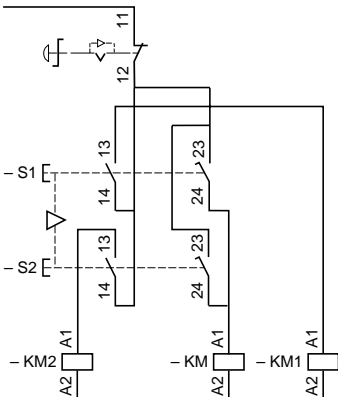
Schemes - typical application examples
For control of single-speed reversing motor
XAC-A2●1●



XAC-A2●5●



For control of 2-speed reversing motor
XAC-A2●7●



Environment		
Conforming to standards		IEC 947-5-1, EN 60947-5-1 For stations with "Emergency stop" : EN 60204-1, EN 60204-32, EN 292-2, EN 418, 89/655 EEC
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10... 500 Hz) conforming to IEC 68-2-6
Shock resistance		70 gn conforming to IEC 68-2-27
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	3 million
Enclosure		Double insulated polypropylene, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 7...Ø 18 mm

Contact block characteristics		
Rated operational characteristics		\sim AC-15 : A 600 or Ue = 600 V, Ie = 1.2 A or Ue = 240 V, Ie = 3 A \equiv DC-13 : Q 600 or Ue = 600 V, Ie = 0.1 A or Ue = 250 V, Ie = 0.27 A conforming to IEC 947-5-1 Appendix A
Thermal current (Ithe)	A	XAC-D2●A010● : 10 XAC-D2●A12●1 : 16
Rated insulation voltage (Ui)	V	600, degree of pollution 3 conforming to IEC 947-1
Rated impulse withstand voltage (U imp)	kV	6 conforming to IEC 947-1
Positive operation		Mushroom head pushbutton on XAC-D22A●●●● : N/C contact with positive opening operation conforming to IEC 947-5-1 Section 3
Contact operation		Single-speed contact blocks : slow break 2-speed contact blocks : snap action
Resistance across terminals	mΩ	≤ 25
Operating force	N	XAC-D2●A010● , XAC-D2●A12●1 : 16
Terminal referencing		By numbers conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Cabling	mm ²	Screw and captive cable clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end

Rated operational power

Conforming to IEC 947-5-1 Appendix C. Utilisation categories AC-15 and DC-13.

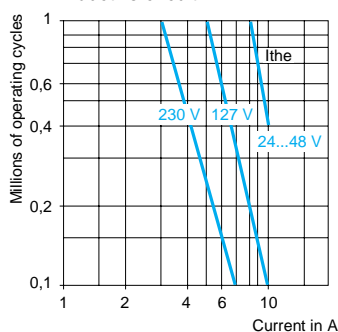
Operating rate : 3600 operating cycles/hour. Load factor : 0.5

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

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated with intuitive operation, type XAC-D
 Complete stations "ready for use"

For control of single-speed hoist motors



Function	Number of operators	Contact block(s) and scheme Per direction	"Emergency stop"	Reference	Weight kg
Reversing, mechanically interlocked	1 2-directional operator	1 N/O ZB2-BE101		-	XAC-D21A0101 0.340
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-D21A0105 0.365
	1 2-directional operator + 1 latching "Emergency stop" Ø 30 mm	1 N/O ZB2-BE101		1 N/C ZB2-BE102	XAC-D22A0101 0.395
	operator ZA2-BS44	1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		1 N/C ZB2-BE102	XAC-D22A0105 0.425
	1 2-directional operator + 1 trigger action latching "Emergency stop" Ø 30 mm operator	1 N/O ZB2-BE101		1 N/C ZB2-BE102	XAC-D24A0101 0.395
	ZA2-BS834	1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		1 N/C ZB2-BE102	XAC-D24A0105 0.425

For control of 2-speed hoist motors



Function	Number of operators	Contact block(s) and scheme For the 2 directions	"Emergency stop"	Reference	Weight kg
Reversing, mechanically interlocked	1 2-directional operator	1 N/O + N/O staggered XED-S1231 (1)		-	XAC-D21A1231 0.365
		1 N/C + N/O + N/O staggered XED-S1241 (1)		-	XAC-D21A1241 0.405
1 2-directional operator + 1 latching "Emergency stop" Ø 30 mm operator ZA2-BS44	1 N/O + N/O staggered XED-S1231 (1)		1 N/C ZB2-BE102	XAC-D22A1231 0.420	
	1 N/C + N/O + N/O staggered XED-S1241 (1)		1 N/C ZB2-BE102	XAC-D22A1241 0.420	
	1 N/O + N/O staggered XED-S1231 (1)		1 N/C ZB2-BE102	XAC-D24A1231 0.420	
	operator ZA2-BS834	1 N/C + N/O + N/O staggered XED-S1241 (1)		1 N/C ZB2-BE102	XAC-D24A1241 0.420

(1) Reference of double contact block for reversing operation.

Environment		
Conforming to standards		IEC 947-3, EN 60947-3, NF C 63-130, VDE 0660-107
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27 except XAC-D 2-speed : 70 gn
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	3 million
Enclosure		Double insulated polypropylene, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 7...Ø 18 mm

Contact block characteristics		
Thermal current (Ithe)	A	XEN-T●●●● : 10 XED-S●●●● : 16
Rated insulation voltage (Ui)	V	500, degree of pollution 3 conforming to IEC 947-1 400, degree of pollution 3, for "Emergency stop" contact on stations XAC-D22P●●●●
Rated impulse withstand voltage (U imp)	kV	6 conforming to IEC 947-1 4 for "Emergency stop" contact on stations XAC-D22P●●●●
Contact operation		Snap action
Operating force	N	Single-speed : 28 ; 2-speed : 31
Terminal referencing		By numbers conforming to CENELEC EN 50005
Short-circuit protection		6 A maximum cartridge fuse type aM
Cabling	mm ²	Screw clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end
Rated operational power		Utilisation categories AC-3 and AC-4 conforming to IEC 947-3 Appendix A 3 phases, 2 poles XED-S2●●● : 1.1 kW-400 V XED-S3●●● : 2.2 kW-400 V Brake contact : 100 V d.c. supply, 0.7 A, L/R = 100 ms Utilisation category AC-23B, mushroom head 'Emergency stop' 3 phases, 3 poles, isolating block : XEN-T●●●● : 3 kW-400 V
Electrical durability	Op. cycles	Utilisation categories AC-3 and AC-4 conforming to IEC 947-3 Appendix A Duty cycle comprising 75 % AC-3, 25 % AC-4 Operating rate : 600 per hour, load factor : 0.4 3 phases, 2 poles XED-S2●●● : 1.1 kW-400 V = 1 million XED-S3●●● : 2.2 kW-400 V = 1 million

Control stations and enclosures

Pendant control stations, for power circuits (direct switching)
Double insulated with intuitive operation, type XAC-D
Complete stations "ready for use"

For control of single-speed hoist motors

Function	Number of operators	Contact blocks Per direction	"Emergency stop"	Maximum rated power 400 V	Reference	Weight kg
Reversing, mechanically interlocked	1 2-directional operator	2-pole XED-S2111 (1)	–	1.1 kW	XAC-D21P2111	0.355
		2-pole XED-S3111 (1)	–	2.2 kW	XAC-D21P3111	0.355
	2-pole + 1 N/O (brake) XED-S2121 (1)	–	1.1 kW	XAC-D21P2121	0.355	
		–	2.2 kW	XAC-D21P3121	0.355	
1 2-directional operator + 1 latching "Emergency stop" Ø 30 mm operator ZA2-BS44 (2)	2-pole XED-S2111 (1)	1 N/C + N/C + N/C XEN-T1991	1.1 kW	XAC-D22P2111 (2)	0.410	
		2-pole XED-S3111 (1)	1 N/C + N/C + N/C XEN-T1991	2.2 kW	XAC-D22P3111 (2)	0.410
	2-pole + 1 N/O (brake) XED-S2121 (1)	1 N/C + N/C + N/C XEN-T1991	1.1 kW	XAC-D22P2121 (2)	0.410	
		1 N/C + N/C + N/C XEN-T1991	2.2 kW	XAC-D22P3121 (2)	0.410	



XAC-D21P2111



XAC-D22P2121

For control of 2-speed hoist motors

Function	Number of operators	Contact blocks Per direction	"Emergency stop"	Maximum rated power 400 V	Reference	Weight kg
Reversing, mechanically interlocked	1 2-directional operator	2-pole XED-S2231 (1)	–	1.1 kW	XAC-D21P2231	0.355
		2-pole XED-S3231 (1)	–	2.2 kW	XAC-D21P3231	0.355
	2-pole + 1 N/O (brake) XED-S2241 (1)	–	1.1 kW	XAC-D21P2241	0.355	
		–	2.2 kW	XAC-D21P3241	0.355	
1 2-directional operator + 1 latching "Emergency stop" Ø 30 mm operator ZA2-BS44 (2)	2-pole XED-S2231 (1)	1 N/C + N/C + N/C XEN-T1991	1.1 kW	XAC-D22P2231 (2)	0.420	
		2-pole XED-S3231 (1)	1 N/C + N/C + N/C XEN-T1991	2.2 kW	XAC-D22P3231 (2)	0.420
	2-pole + 1 N/O (brake) XED-S2241 (1)	1 N/C + N/C + N/C XEN-T1991	1.1 kW	XAC-D22P2241 (2)	0.420	
		1 N/C + N/C + N/C XEN-T1991	2.2 kW	XAC-D22P3241 (2)	0.420	



XAC-D21P2231



XAC-D22P2241

(1) Reference of double contact block for reversing operation.

(2) To order a station with a trigger action latching "Emergency stop" Ø 30 mm operator (ZA2-BS834), replace "D22" in the reference by "D24". Example : **XAC-D22P111** becomes **XAC-D24P2111**.

Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated with intuitive operation, type XAC-D
 Empty enclosure and separate components

Empty enclosure



XAC-D021

XAC-D022

Description	Enclosure cut-outs	Reference	Weight kg
Empty enclosure comprising : - the enclosure, - protective cable sleeve for Ø 7 to 18 mm cable, - internal cable clamp, - cable tie (for tightening sleeve onto cable), - the directional operator, - legend plates.	For directional operator	XAC-D021	0.345
	For directional operator + operating head (Ø 22.5 mm cut-out)	XAC-D022	0.345

Variable composition stations, pre-assembled

Use Order form, page 17

Equipment : contact blocks, operating heads, complementary accessories

See separate components pages 12 and 13



ZB2-BE10●

Contact blocks

Description	Application	Function (1)	Scheme (1)	Max. rated power/400 V	Reference	Weight kg
-------------	-------------	--------------	------------	------------------------	-----------	-----------

For control circuits

Single block spring return, slow break	Single speed	N/O		-	ZB2-BE101	0.015
		N/C		-	ZB2-BE102	0.015
Double block spring return, snap action	2-speed	N/O + N/O staggered		-	XED-S1231	0.015
		N/C + N/O + N/O staggered		-	XED-S1241	0.015



XED-S1231

For power circuits

Double block spring return, snap action	Single speed	2-pole	(2)	1.1 kW 2.2 kW	XED-S2111 XED-S3111	0.080 0.090
		2-pole + 1 N/O (brake)	(2)	1.1 kW 2.2 kW	XED-S2121 XED-S3121	0.090 0.090
	2-speed	2-pole	(2)	1.1 kW 2.2 kW	XED-S2231 XED-S3231	0.110 0.110
		2-pole + 1 N/O (brake)	(2)	1.1 kW 2.2 kW	XED-S2241 XED-S3241	0.120 0.120



XED-S2121

For "Emergency stop" operating heads (Ø 22.5 mm cut-out)

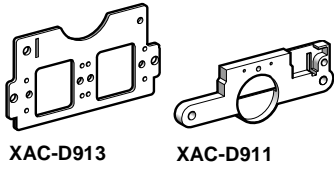
Single block spring return, slow break	N/C		-	ZB2-BE102	0.015
	N/C + N/C + N/C		-	XEN-T1991	0.040



XEN-T1991

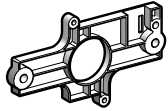
(1) Function or scheme per direction for double contact blocks.
 (2) See schemes for typical applications, page 15.

Pendant control stations, for control or power circuits
Double insulated with intuitive operation, type XAC-D
Separate components



XAC-D913

XAC-D911



XAC-D912



ZA2-BS44



ZA2-BS834



ZA2-BS74



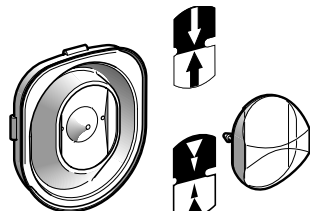
ZA2-BD2



ZA2-BG2

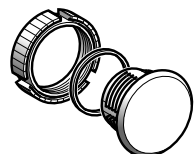


XAC-D901



XAC-D902

XAC-D905



ZB2-SZ3

Contact block support plates

Application	Reference	Weight kg
2 movement contact blocks ZB2-BE10● (control circuit stations)	XAC-D913	0.010
1 contact block ZB2-BE102 for operating head	XAC-D911	0.005
1 contact block XEN-T1991 for operating head	XAC-D912	0.010

Operating heads for Ø 22.5 mm cut-out

Description	Colour	Reference	Weight kg
Mushroom head Ø 30 mm, latching Turn to release (Emergency stop)	Red	ZA2-BS44	0.040
Mushroom head Ø 30 mm, trigger action, latching Turn to release (Emergency stop)	Red	ZA2-BS834	0.040
Mushroom head Ø 30 mm, latching Key release - Ronis n° 455 (1) Key withdrawal in rest position (Emergency stop)	Red	ZA2-BS74	0.060
Selector switch, standard handle 2 position stay put	Black	ZA2-BD2	0.018
Key switch (Ronis key n° 455) (1) 2 position stay put Key withdrawal in left hand position	–	ZA2-BG2	0.020

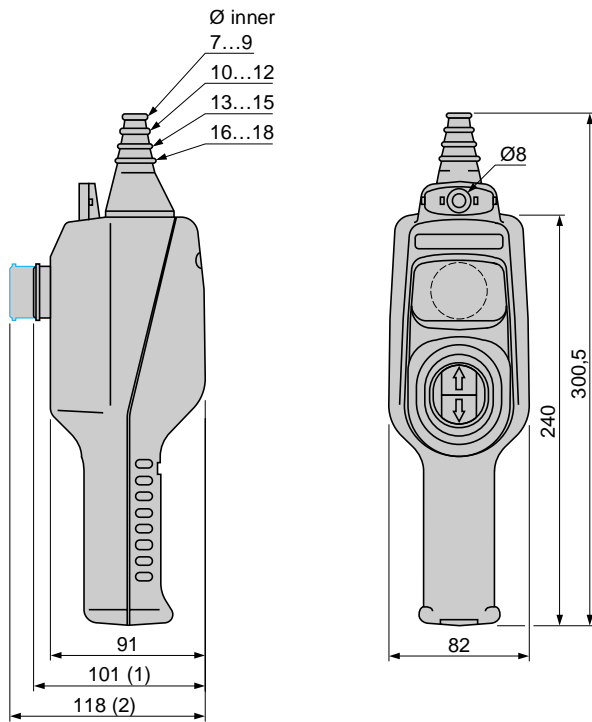
Complementary accessories

Description	Reference	Weight kg
Protective cable sleeve for cable Ø 7 to 18 mm	XAC-D901	0.030
Diaphragm for directional operator , black polychloroprene	XAC-D902	0.015
Directional operator with legend plate set (Single-speed and 2-speed)	XAC-D905	0.005
Blanking plug for Ø 22.5 mm cut-out, black, including seal and fixing nut	ZB2-SZ3	0.010

Printed labels, pendant station characteristics

Description	Pendant station circuit function	Sold in lots of	Unit reference	Weight kg
Self-adhesive labels product identification	Control	50	XAC-D950	0.001
	Power 1.1 kW	50	XAC-D951	0.001
	Power 2.2 kW	50	XAC-D952	0.001

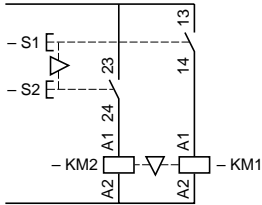
(1) Other key numbers available on request, please consult your Regional Sales Office.



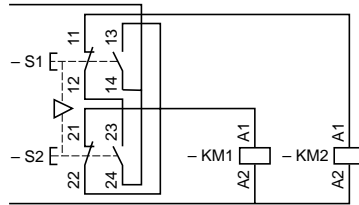
- (1) With standard latching Ø 30 mm "Emergency stop" ZA2-BS44.
(2) With trigger action latching Ø 30 mm "Emergency stop" ZA2-BS834.

Control circuits

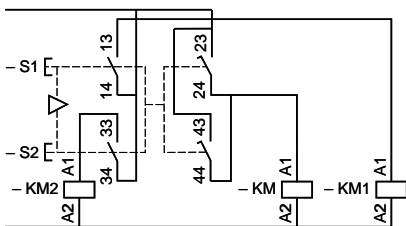
XAC-D21A0101



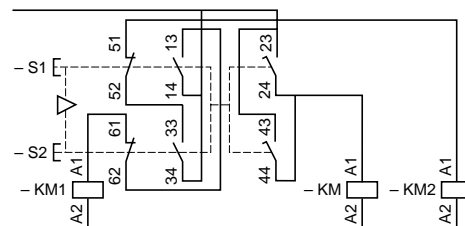
XAC-D21A0105



XAC-D21A1231



XAC-D21A1241



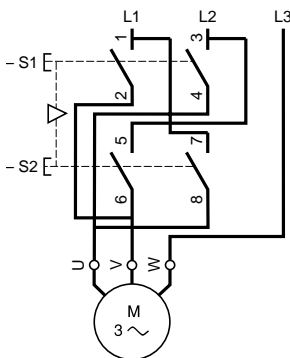
Power circuits

For single-speed reversing motor

2-phase switching

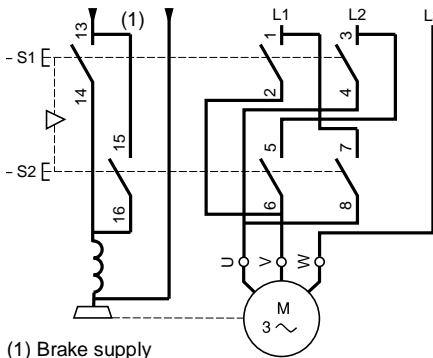
XAC-D21P2111

XAC-D21P3111



XAC-D21P2121

XAC-D21P3121

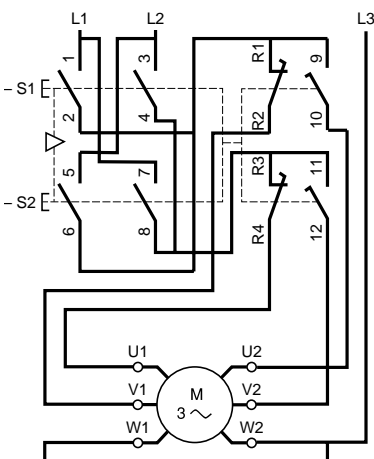


For 2-speed reversing motor (motors with separate windings only)

2-phase switching

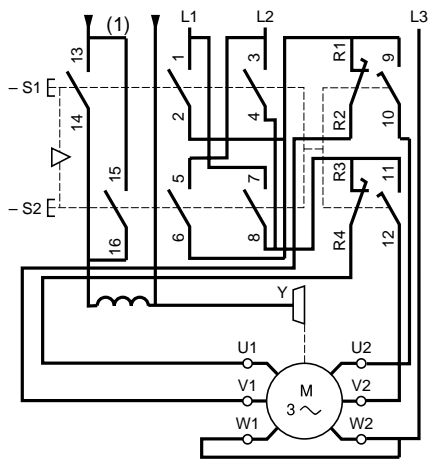
XAC-D21P2231

XAC-D21P3231

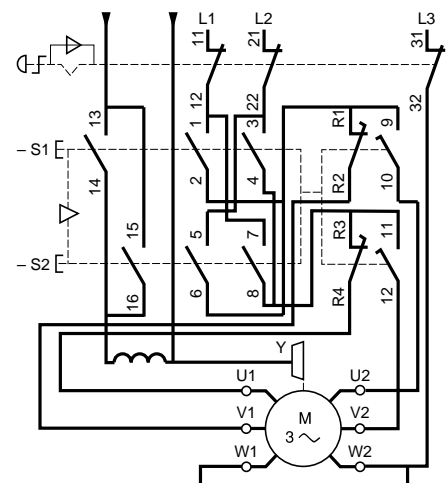


XAC-D21P2241

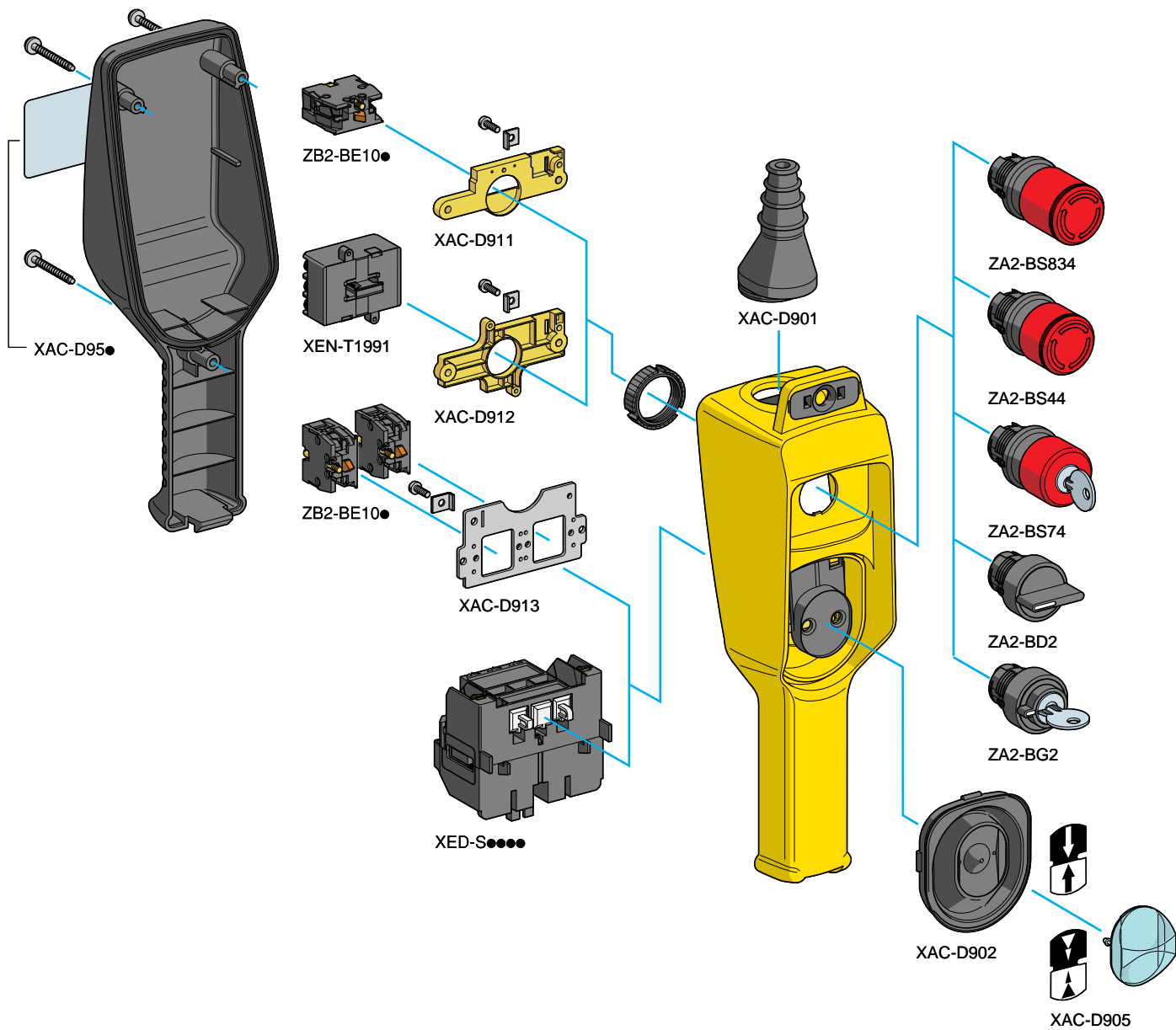
XAC-D21P3241



XAC-D22P2241



(1) Brake supply



Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated with intuitive operation, type XAC-D
 Variable composition stations, pre-assembled

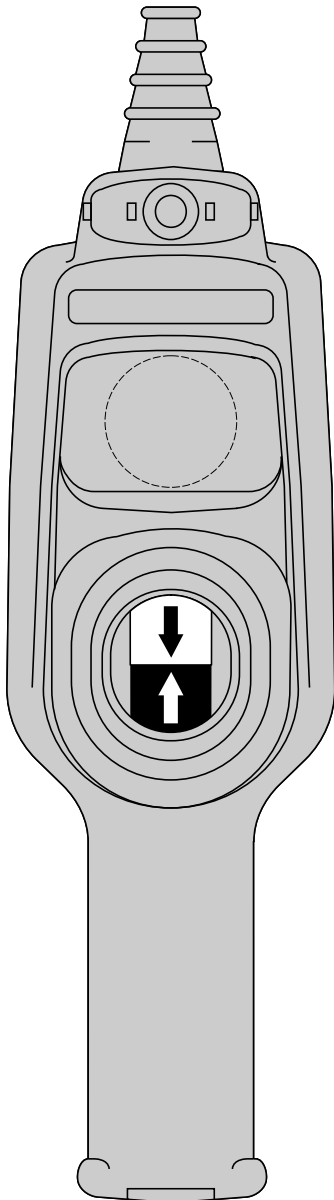
Customer			Schneider Electric Industries	
Company	Order N°	Delivery date	Sales Office - Subsidiary Co.	Order N°

Enter the order with XAC-D09 reference

Unit reference of empty enclosure, see page 12				Number of identical stations	Enclosure price (1)
XAC-	D	0	2		

The reference of the empty enclosure comprises :

- the enclosure,
 - internal cable clamp,
 - cable tie (for tightening sleeve onto cable),
 - directional operator, with legend plate set **XAC-D905**,
 - protective cable sleeve for Ø 7 to 18 mm cable **XAC-D901**,
 - diaphragm for directional operator **XAC-D902**.
- (1) Get the empty enclosure price.



Operating head see page 13		Contact block see page 12		Support plate see page 13		Total price
Reference	Unit price	Reference	Unit price	Reference	Unit price	

Contact blocks see page 12			Support plate (for ZB2-BE●●● only) see page 13			Total price
Reference	Qty.	Unit price	Reference	Qty.	Unit price	

Pre-assembled
 Add an additional cost for assembly **XAC-9VA**

Total price of assembled pendant station

Environment

Conforming to standards		IEC 947-5-1, EN 60947-5-1
Approvals		NEMKO. Special version : UL Listed A600-Q600, CSA A600-Q600
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25... + 70. Storage : - 40... + 70
Vibration resistance		15 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	1 million
Enclosure		Double insulated polypropylene, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 8...Ø 26 mm

Contact block characteristics

Rated operational characteristics		ZB2-BE●●●, XEN-G●●●●, XAC-S●●●● : \sim AC-15 : A600 or Ue = 600 V, Ie = 1.2 A or Ue = 240 V, Ie = 3 A \equiv DC-13 : Q600 or Ue = 600 V, Ie = 0.1 A or Ue = 250 V, Ie = 0.27 A XEN-T●●●● \sim AC-15 : A300 or Ue = 240 V, Ie = 3 A \equiv DC-13 : Q300 or Ue = 250 V, Ie = 0.27 A conforming to IEC 947-5-1 Appendix A
Thermal current (Ithe)	A	10
Rated insulation voltage (Ui)	V	ZB2-BE●●●, XEN-G●●●●, XAC-S●●●● : 600, degree of pollution 3 XEN-T●●●● : 400, degree of pollution 3 conforming to IEC 947-1
Rated impulse withstand voltage (U imp)	kV	6 conforming to IEC 947-1
Positive operation		Mushroom head pushbutton : N/C contact with positive opening operation to IEC 947-5-1 Section 3
Contact operation		N/C or N/O slow break
Resistance across terminals	mΩ	≤ 25
Operating force	N	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
Terminal referencing		Conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Cabling	mm ²	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 ² . 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

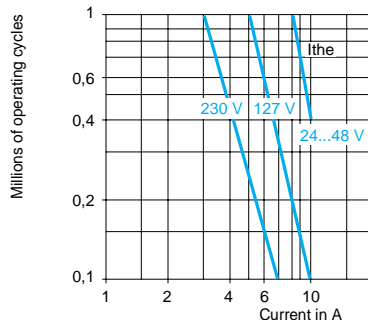
a.c. supply \sim 50/60 Hz

\sim Inductive circuit

d.c. supply \equiv

Power broken in W

for 1 million operating cycles







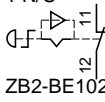

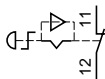

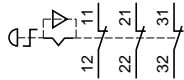

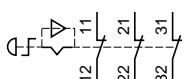
Voltage V 24 48 120

\sim W 65 48 40

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Complete stations "ready for use"

For control of single-speed motors

Functions	Number of operators	Contact blocks and scheme		Reference	Weight kg
		Per direction	For "Emergency stop"		
	2 mechanically interlocked	1 N/O	-	XAC-A271	0.475
		 ZB2-BE101			
		1 N/C + 1 N/O	-	XAC-A281	0.500
		 ZB2-BE102 + ZB2-BE101			
	2 mechanically interlocked + 1 latching "Emergency stop" Ø 30 mm operator ZA2-BS44 (1)	1 N/O	1 N/C	XAC-A2713 (1)	0.575
		 ZB2-BE101	 ZB2-BE102		
		1 N/C + 1 N/O	1 N/C	XAC-A2813 (1)	0.600
		 ZB2-BE102 + ZB2-BE101	 ZB2-BE102		
		1 N/O	1 N/C + N/C + N/C	XAC-A27131 (1)	0.615
		 ZB2-BE101	 XEN-I1192		
		1 N/C + 1 N/O	1 N/C + N/C + N/C	XAC-A28131 (1)	0.635
		 ZB2-BE102 + ZB2-BE101	 XEN-T1192		

(1) Also available with a trigger action Ø 30 mm latching mushroom head Emergency stop operator (ZA2-BS834). To order, replace the number 3 in the reference by the number 4.
 Examples : XAC-A2713 becomes XAC-A2714 and XAC-A27131 becomes XAC-A27141.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Complete stations "ready for use"

For control of single-speed motors (continued)

Functions	Number of operators	Contact blocks and scheme Per direction	For "Emergency stop"	Reference	Weight kg
	4 mechanically interlocked between pairs	1 N/O ZB2-BE101		-	XAC-A471 0.625
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A481 0.675
	4 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54 (1)	1 N/O ZB2-BE101		1 N/C ZB2-BE102	XAC-A4713 (1) 0.800
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		1 N/C ZB2-BE102	XAC-A4813 (1) 0.815
	4 mechanically interlocked between pairs	1 N/O ZB2-BE101		1 N/C + N/C + N/C ZEN-T1192	XAC-A47131 (1) 0.835
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		1 N/C + N/C + N/C ZEN-T1192	XAC-A48131 (1) 0.850
	6 mechanically interlocked between pairs	1 N/O ZB2-BE101		-	XAC-A671 0.860
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		-	XAC-A681 0.950
	6 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54 (1)	1 N/O ZB2-BE101		1 N/C ZB2-BE102	XAC-A6713 (1) 0.845
		1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101		1 N/C ZB2-BE102	XAC-A6813 (1) 0.935



XAC-A471
XAC-A481



XAC-A4713
XAC-A4813
XAC-A47131
XAC-A48131




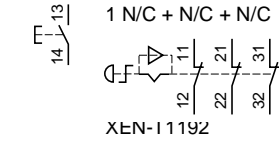

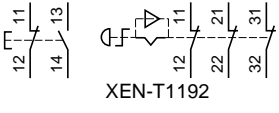


XAC-A671
XAC-A681
XAC-A6713
XAC-A6813

(1) Also available with a trigger action Ø 40 mm latching mushroom head Emergency stop operator (ZA2-BS844). To order, replace the number 3 in the reference by the number 4.
 Examples : XAC-A4713 becomes XAC-A4714 and XAC-A47131 becomes XAC-A47141.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Complete stations "ready for use"

For control of single-speed motors (continued)

Functions	Number of operators	Contact blocks and scheme Per direction	For "Emergency stop"	Reference	Weight kg
	6 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54 (1)	1 N/O ZB2-BE101		XAC-A67131 (1)	0.880
	8 mechanically interlocked between pairs + 1 N/C on the 8th operators	1 N/O on 7 operators ZB2-BE101 and 1 N/C on the 8th operators ZB2-BE102		XAC-A68131 (1)	0.970
	8 mechanically interlocked between pairs	1 N/O on 7 operators ZB2-BE101 and 1 N/C on the 8th operators ZB2-BE102	-	XAC-A871	0.940
	8 mechanically interlocked between pairs + 1 latching "Emergency stop"	1 N/C + 1 N/O ZB2-BE102 + ZB2-BE101	-	XAC-A881	1.045



XAC-A67131
XAC-A68131



XAC-A871
XAC-A881






XAC-A291



XAC-A2913
XAC-A29131

For control of 2-speed motors


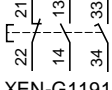

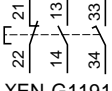
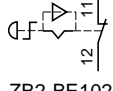

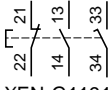
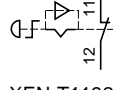
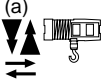
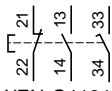



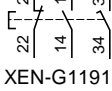
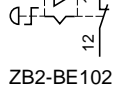



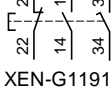
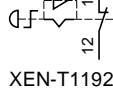
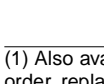

Functions	Number of operators	Contact blocks and scheme Per direction	For "Emergency stop"	Reference	Weight kg
	2 mechanically interlocked between pairs	1 N/C + N/O + N/O staggered	-	XAC-A291	0.525
	2 mechanically interlocked between pairs + 1 latching "Emergency stop"	1 N/C + N/O + N/O staggered XEN-G1191	1 N/C ZB2-BE102	XAC-A2913 (1)	0.570
	2 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 30 mm operator ZA2-BS44 (1)	1 N/C + N/O + N/O staggered XEN-G1191	1 N/C + N/C + N/C XEN-T1192	XAC-A29131 (1)	0.605

(1) Also available with a trigger action Ø 30 mm or 40 mm latching mushroom head Emergency stop operator (ZA2-BS834) or (ZA2-BS844). To order, replace the number 3 in the reference by the number 4.
 Examples : XAC-A67131 becomes XAC-A67141 and XAC-A2913 becomes XAC-A2914.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Complete stations "ready for use"

For control of 2-speed motors (continued)

Functions	Number of operators	Contact blocks and scheme Per direction	Reference For "Emergency stop"	Weight kg
	4	1 N/C + N/O + N/O staggered	-	XAC-A491 0.625
		 XEN-G1191		
	4	1 N/C + N/O + N/O staggered	1 N/C	XAC-A4913 (1) 0.675
		 XEN-G1191	 ZB2-BE102	
	4	1 N/C + N/O + N/O staggered	1 N/C + N/C + N/C	XAC-A49131 (1) 0.700
		 XEN-G1191	 XEN-T1192	
	4	1 N/C + N/O + N/O staggered (a)	-	XAC-A492 0.675
		 XEN-G1191		
	4	1 N/O (b)		
		 ZB2-BE101		
	4	1 N/C + N/O + N/O staggered (a)	1 N/C	XAC-A4923 (1) 0.700
		 XEN-G1191	 ZB2-BE102	
	4	1 N/O (b)		
		 ZB2-BE101		
	4	1 N/C + N/O + N/O staggered (a)	1 N/C + N/C + N/C	XAC-A49231 (1) 0.735
		 XEN-G1191	 XEN-T1192	
	4	1 N/O (b)		
		 ZB2-BE101		

(1) Also available with a trigger action Ø 40 mm latching mushroom head Emergency stop operator (ZA2-BS844). To order, replace the number 3 in the reference by the number 4.
 Examples : XAC-A4913 becomes XAC-A4914 and XAC-A49131 becomes XAC-A49141.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Empty enclosures

Empty enclosures



XAC-A02



XAC-A03



XAC-A12

Description	Number of ways	Reference	Weight kg
Enclosure 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	XAC-A02	0.440
	3	XAC-A03 (1)	0.440
	4	XAC-A04	0.540
	5	XAC-A05 (1)	0.540
	6	XAC-A06	0.665
	8	XAC-A08	0.770
	12	XAC-A12	1.000

Variable composition stations, pre-assembled

Use Order form, page 33

Equipment : contact blocks,
 operating heads and signalling units,
 complementary accessories

See separate components
 pages 24 to 29

(1) Enclosures with 3 cut-outs XAC-A03 and 5 cut-outs XAC-A05 cannot be fitted with a mounting adaptor for base mounted units.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Separate components

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
Single block, spring return slow break	Single speed	N/O		ZB2-BE101	0.015
		N/C		ZB2-BE102	0.015
		N/C + N/O + N/O simultaneous (1)		XEN-G1491	0.040
	2-speed	N/C + N/O + N/O staggered (1)		XEN-G1191	0.040
Double block, latching slow break (2)	Single speed	N/O		XEN-G3781	0.060
		N/O			
		N/O		XEN-G3791	0.060
		N/C			

Isolating switch, slow break, for front mounting

For mounting in enclosures	Application	Function	Scheme	Reference	Weight kg
XAC-A03 (frontal cut-out) XAC-A05, A06, A08 (frontal or base cut-out)	"Emergency stop"	1 N/C + N/C + N/C with positive opening operation		XEN-T1192	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.

Control stations and enclosures

Pendant control stations, for control circuits
Double insulated, type XAC-A
Separate components



XAC-A94●●



ZA2-BS54



ZA2-BS834



ZA2-BS14



ZA2-BD●



ZA2-BG●



ZA2-BB●

Operating heads for front mounting

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

Operating heads for front or base mounting

Description	Colour	Type	Reference	Weight kg
Mushroom head, latching Turn to release (Emergency stop)	Red	Ø 30 mm	<u>ZA2-BS44</u>	0.028
		Ø 40 mm	<u>ZA2-BS54</u>	0.033
Mushroom head, trigger action, latching Turn to release (Emergency stop)	Red	Ø 30 mm	<u>ZA2-BS834</u>	0.040
		Ø 40 mm	<u>ZA2-BS844</u>	0.050
Mushroom head, latching Key release - Ronis n° 455 Key withdrawal in rest (unactuated) position (Emergency stop)	Red	Ø 30 mm	<u>ZA2-BS74</u>	0.060
		Ø 40 mm	<u>ZA2-BS14</u>	0.065
Selector switches, standard handle (Not to be used with XEN-G●●●● contact blocks)	Black	2 position stay put	<u>ZA2-BD2</u>	0.018
		3 position stay put (1)	<u>ZA2-BD3</u>	0.018
Key switches (Ronis key no 455) Key withdrawal in left and right hand positions	–	2 position stay put	<u>ZA2-BG4</u>	0.042
		3 position stay put (1)	<u>ZA2-BG5</u>	0.042
Wobblesticks (2) Operates in all directions, for "Fast stop" function	Black	–	<u>ZA2-BB2</u>	0.060
	Red	–	<u>ZA2-BB4</u>	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.

Pendant control stations, for control circuits

Double insulated, type XAC-A

Separate components



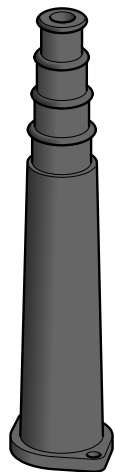
ZA2-BV01



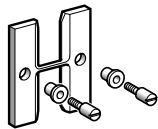
DL1-C0000



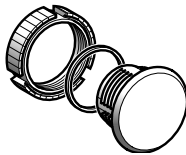
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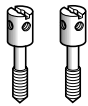
XAC-A960



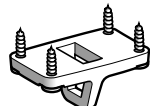
XAC-A009



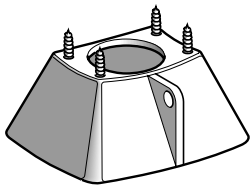
ZB2-SZ3



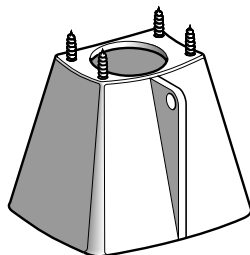
XAC-B961



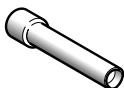
XAC-A971



XAC-A982



XAC-A983



XBF-X13

Pilot light heads

Description	Colour	Reference	Weight kg
For use with incandescent bulbs			
Lens cap 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

Lens cap 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
Incandescent 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
	130 V	DL1-CE130	0.002
	Neon BA 9s base fitting Maximum power : 2.6 W Maximum Ø : 11 mm Maximum length : 28 mm	110 V	DL1-CF110
230 V		DL1-CF220	0.002
400 V		DL1-CF380	0.002

Complementary accessories, tools

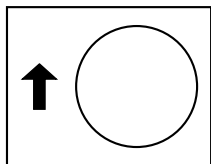
Description	Reference	Weight kg
Protective cable sleeve	For cable Ø 8 to 22 mm	XAC-A950 0.070
	For cable Ø 8 to 26 mm	XAC-A960 0.090
Mechanical interlock for 2 operators	With fixing screws	XAC-A009 0.003
Blanking plug	With seal and fixing nut	ZB2-SZ3 0.005
Adaptor for self-supporting cable type BBAP	Mounted with protective sleeve for cable Ø 8 to 26 mm	XAC-B961 0.025
Lower support ring	–	XAC-A971 0.010
Protective guards for base mounted units	For selector switch (std. handle) or mushroom head pushbutton	XAC-A982 0.025
	For key switch or key release latching mushroom head pushbutton	XAC-A983 0.045
Bulb extractor	For BA 9s base fitting bulbs	XBF-X13 0.025

Characteristics :
page 18Illustrations :
page 32Dimensions :
page 30Schemes :
page 31

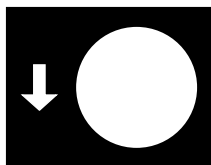
Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Legend plates 30 x 40 mm with symbols conforming
 to NF E 52-124

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



Black symbol, white background



White symbol, black background



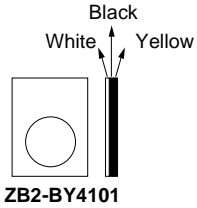
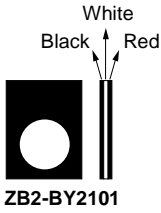
White symbol, red background

Control stations and enclosures

Pendant control stations, for control circuits

Double insulated, type XAC-A

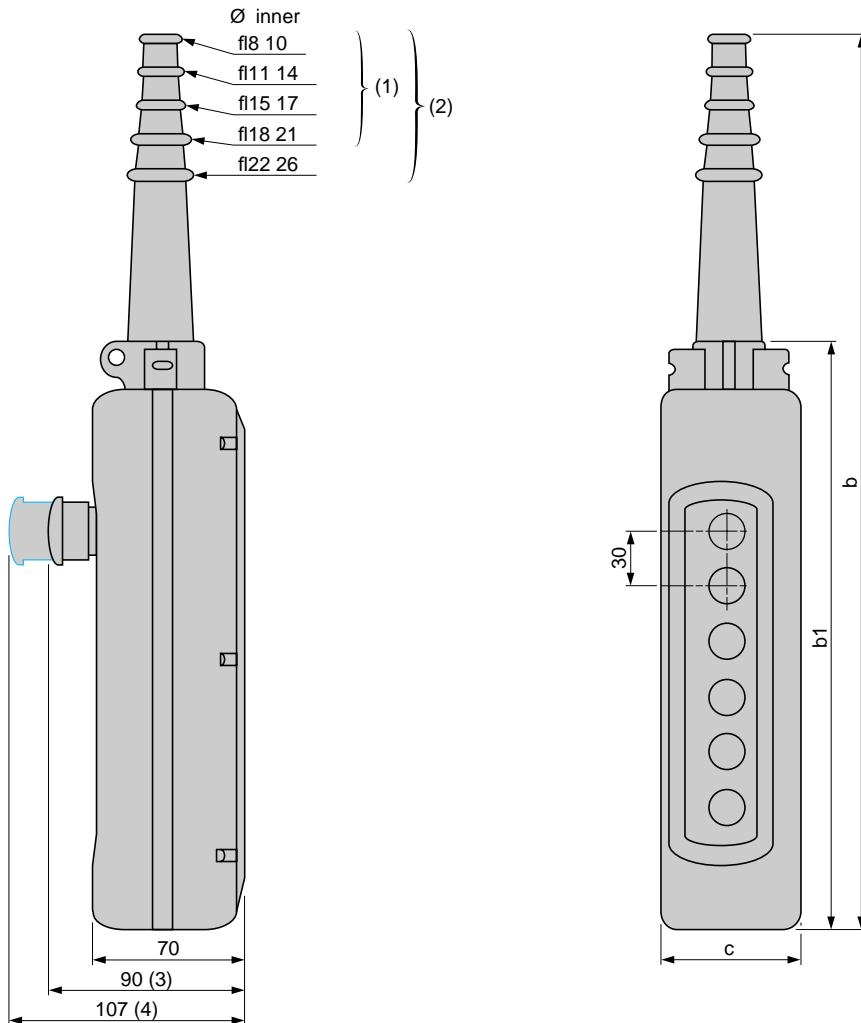
Legend plates 30 x 40 mm



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

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

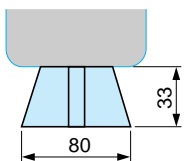
XAC-A pendant stations for control circuits



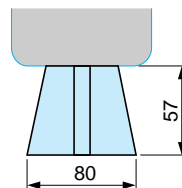
Number of ways	2	3	4	5	6	8	12
b	314	314	440	440	500	560	680
b1	190	190	250	250	310	370	490
c	80	80	80	80	80	80	92

- (1) For 2 and 3-way XAC-A stations
- (2) For 4 to 8-way XAC-A stations
- (3) With mushroom head operator
- (4) With mushroom head, trigger action, operator

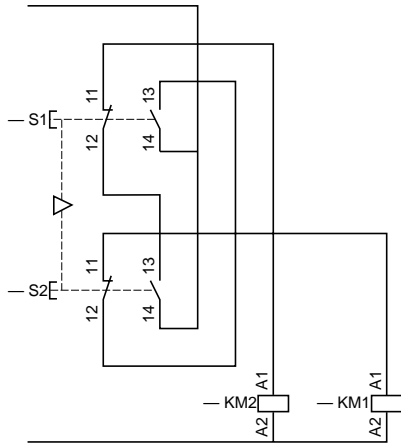
Protective guards for base mounted units
XAC-A982



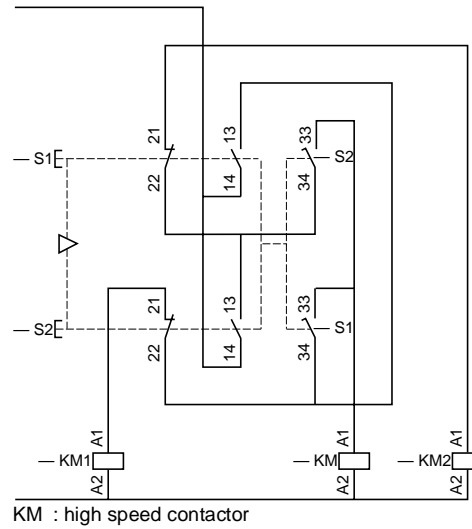
XAC-A983

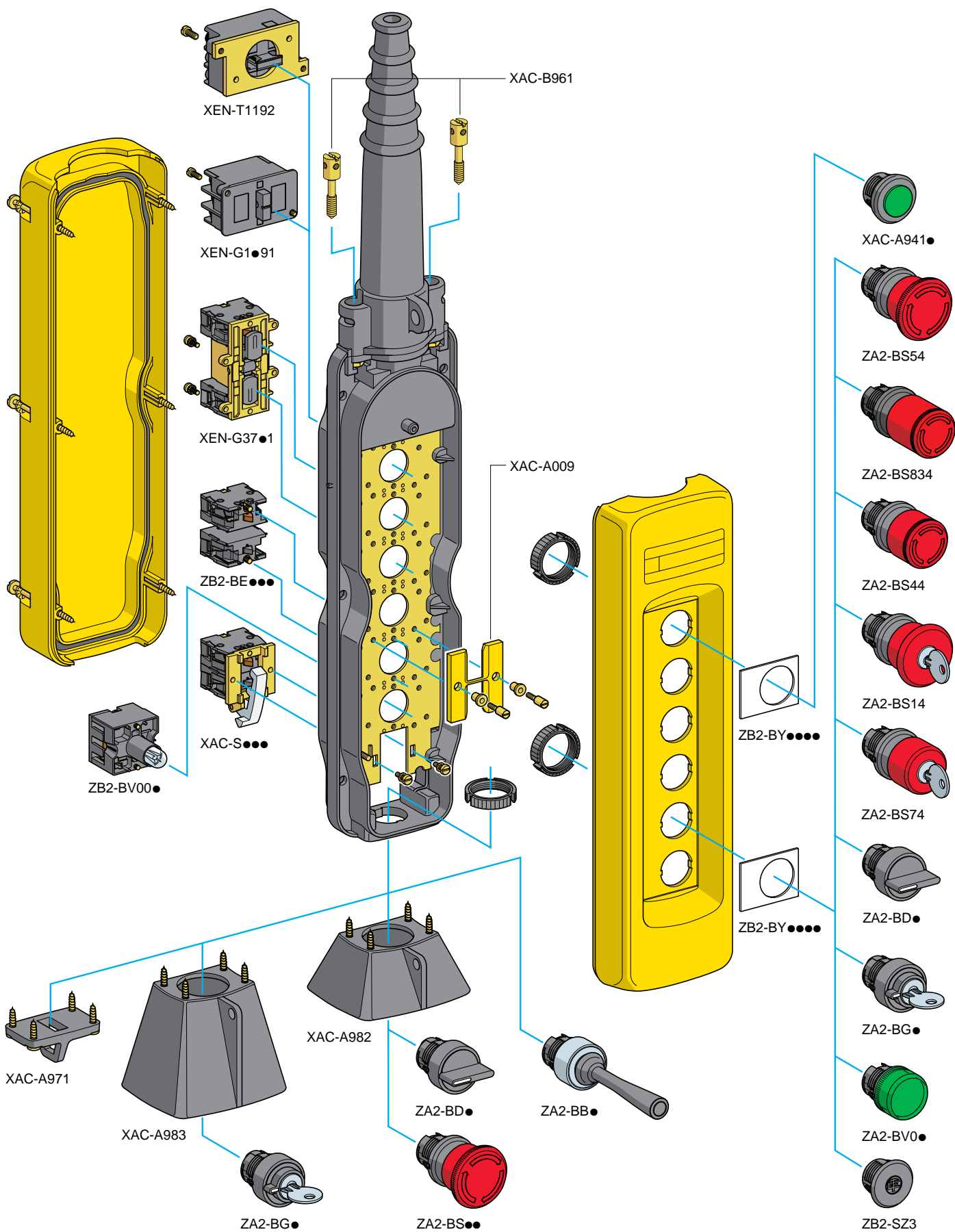


For control of single-speed reversing motor
(Contact blocks ZB2-BE101 + ZB2-BE102)



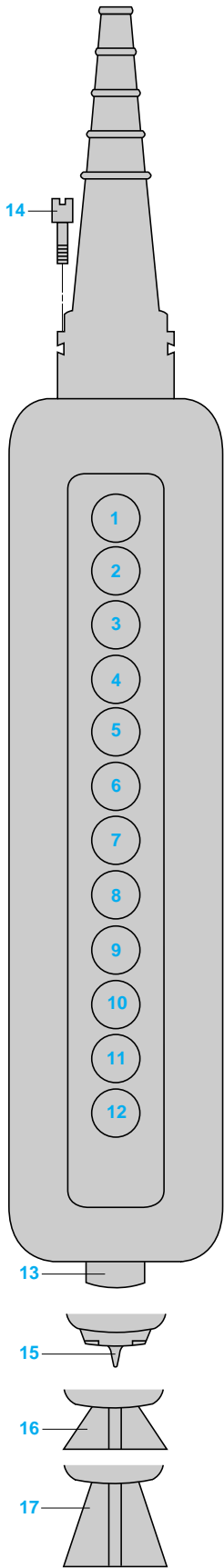
For control of 2-speed reversing motor
(2 contact blocks XEN-G1191)





Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated, type XAC-A
 Variable composition stations, pre-assembled



Customer			Schneider Electric Industries	
Company	Order N°	Delivery date	Sales office - Subsidiary Co.	Order N°

Enter the order with XAC-A09 reference

Unit reference of empty enclosure, see page 23	Number of identical stations	Enclosure price (1)
XAC- <input type="text" value="A"/> <input type="text"/> <input type="text"/>		

Legend plates see pages 28 and 29	Contact blocks or pilot light bodies see pages 24 and 25	Operating heads or pilot light bodies or blanking plugs see pages 26 and 27
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Reference	Unit price	Reference	Unit price	Reference	Unit price	Total price
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Unit mounted in base of enclosure (if required) (Except when using XAC-A03 and XAC-A05)

13						
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Complementary accessories, see page 27 (enter a cross in the appropriate box or boxes)

Description		Reference	Unit price
14 Adaptor for self-supporting cable type BBAP for use with cable entry sleeve Ø 8 to 26 mm	X	XAC-B961	
15 Lower support ring		XAC-A971	
16 Protective guard for selector switch (std. handle) or mushroom head pushbutton, mounted in base		XAC-A982	
17 Protective guard for key switch or latching mushroom head key release pushbutton, mtd. in base		XAC-A983	

Mechanical interlocking (2)

Reference	Quantity	Unit price
XAC-A009		

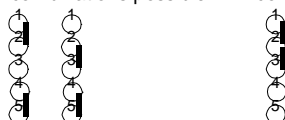
Pre-assembled

Quantity of operating heads or blanking plugs	X	Additional cost XAC-9VA for 1 head or 1 plug assembly	
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Total price of assembled pendant station

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(1) Get the empty enclosure price.
 (2) Connect with a line the 2 ways which require mechanical interlocking.
 Examples : combinations possible combinations not possible



Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated or metal, types XAC-B and XAC-M
XAC-M: for maintenance only

Environment		
Conforming to standards		IEC 947-5-1, EN 60947-5-1
Approvals		XAC-B : standard version : NEMKO, CSA 300 V type 4 XAC-M : standard version : CSA 300 V type 4
Protective treatment		XAC-B : standard version : "TH". XAC-M : standard version "TC", ("TH" on request)
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27
Electric shock protection		XAC-B : class II, XAC-M : class I conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	1 million
Enclosure		XAC-B : double insulated glass-reinforced polyester, coloured yellow throughout XAC-M : aluminium enclosure, painted yellow
Cable entry		Rubber sleeve with stepped entry diameter for cable : Ø 7...Ø 13 mm, Ø 10...Ø 22 mm or Ø 22...Ø 35 mm

Contact block characteristics		
Rated operational characteristics		~ AC-15 : A300 or Ue = 240 V, Ie = 3 A --- DC-13 : Q300 or Ue = 250 V, Ie = 0.27 A conforming to IEC 947-5-1 Appendix A
Thermal current (Ithe)	A	10
Rated insulation voltage (Ui)	V	XEN-C●●●●, XEN-D3●●●, XEN-D4●●●, XES-B2011, XAC-S4, XES-D1181, XES-D1281 : 500, degree of pollution 3 conforming to IEC 947-1 XEN-B●●●●, XEN-D1●●●, XEN-D2●●● : 400, degree of pollution 3 conforming to IEC 947-1
Rated impulse withstand voltage (U imp)	kV	6 conforming to IEC 947-1
Positive operation		Mushroom head pushbutton : N/C contact with positive opening operation to IEC 947-5-1 Section 3
Contact operation		Slow break or snap action
Resistance across terminals	mΩ	≤ 25
Operating force	N	With booted operator : XAC-S4●●● : 10 (N/O), 8 (N/C) ; XEN-C●●●● : 6 (N/O), 4 (N/C) ; XEN-B●●●●, XEN-D1●●●, XEN-D2●●● : Single-speed : 9, 2-speed : 20 (1 st speed), 30 (2 nd speed) ; XEN-D3●●●, XEN-D4●●● : 25 ; XES-B2011 : 7 ; XES-D1181, XES-D1281 : 15 (1 st speed), 25 (2 nd speed) With mushroom head operator, spring return : 10, latching : 40
Terminal referencing		By numbers conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Cabling	mm ²	Screw and captive cable clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end

Rated operational power conforming to IEC 947-5-1 Appendix C Utilisation categories AC-15 & DC-13	Contact blocks XEN-C●●●●, XEN-D3●●●, XEN-D4●●●, XAC-S4●●●								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
For 1 million operating cycles	Voltage V	24	48	127	230	Voltage V	24	48	120
Operating rate : 3600 op. cycles/hour	VA	140	385	525	455	W	60	45	42
Load factor : 0.5									
Inductive circuit									
	Contact blocks XEN-B●●●●, XEN-D1●●●, XEN-D2●●●								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
	Voltage V	24	48	127	230	Voltage V	24	48	120
	VA	140	210	640	680	W	48	31	35
	Contact blocks XES-B2011, XES-D1181, XES-D1281								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
	Voltage V	24	48	127	230	Voltage V	24	48	120
	VA	50	100	450	750	W	140	140	95






Environment		
Conforming to standards		IEC 947-3, EN 60947-3, NF C 63-130, VDE 0660-107
Approvals		Standard version : CSA type 4
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 and IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	1 million
Enclosure		Double insulated glass-reinforced polyester, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 10... Ø 22 mm

Contact block characteristics		
Thermal current (I _{the})	A	XES-D1191, XES-D1291 : 12. XES-D2201, XES-D2241, XES-D2251 : 20
Rated insulation voltage (U _i)	V	XES-D●●●● : 500, degree of pollution 3 conforming to IEC 947-1 XAC-S●99 : 400, degree of pollution 3 conforming to IEC 947-1 XES-D1●●● : 600, conforming to CSA XES-D2●●● : 300, conforming to CSA
Rated impulse withstand voltage (U _{imp})	kV	6 conforming to IEC 947-1
Contact operation		Snap action
Operating force	N	XES-D1●●● : 17, XES-D2●●● : 32
Terminal referencing		By numbers conforming to CENELEC EN 50005
Short-circuit protection		Cartridge fuse : XES-D1●●● : 10 A max., type aM Cartridge fuse : XES-D2●●● : 12 A max., type aM
Cabling	mm ²	Screw and captive cable clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end
Rated operational power		Utilisation categories AC-3 and AC-4 conforming to IEC 947-3 Appendix A 3 phases, 2 poles XES-D1●●● : 2.2 kW-240 V 2.2 kW-400 V 3 phases, 3 poles XES-D2●●● : 3 kW-240 V 3 kW-400 V Utilisation category AC-23B XAC-S●99 3 phases, 3 poles, isolating block : 3 kW-400 V CSA certification 3 phases, 2 poles XES-D1●●● : 2 hp-240 V 5 hp-400 V 3 hp-600 V 3 phases, 3 poles XES-D2●●● : 3 hp-240 V
Electrical durability	Op. cycles	Utilisation categories AC-3 and AC-4 conforming to IEC 947-3 Appendix A Duty cycle comprising 75 % AC-3, 25 % AC-4 Operating rate : 600 per hour, load factor : 0.4 3 phases, 2 poles XES-D1●●● : 1.5 kW-240 V = 500,000 2.2 kW-240 V = 300,000 1.5 kW-400 V = 800,000 2.2 kW-400 V = 300,000 3 phases, 3 poles XES-D2●●● : 3 kW-240 V = 700,000 3 kW-400 V = 1 million

Control stations and enclosures

Pendant control stations, for power circuits (direct switching)
Double insulated, type XAC-B
Complete stations "ready for use"

For control of single-speed motors

Functions	Number of operators	Contact blocks Per direction	"Emergency stop"	Maximum rated power 400 V	Reference	Weight kg
	2 mechanically interlocked	2-pole XES-D1191 (1)	-	2.2 kW	XAC-B219	0.355
		3-pole XES-D2201 (1)	-	3 kW	XAC-B220	0.355
	2 mechanically interlocked + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54	2-pole XES-D1191 (1)	1 N/C + N/C + N/C XAC-S499	2.2 kW	XAC-B3191	0.940
		3-pole XES-D2201 (1)	1 N/C + N/C + N/C XAC-S499	3 kW	XAC-B3201	1.000
	4 mechanically interlocked between pairs	2-pole XES-D1191 (1)	-	2.2 kW	XAC-B491	1.200
		3-pole XES-D2201 (1)	-	3 kW	XAC-B493	1.330
	4 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54	2-pole XES-D1191 (1)	1 N/C + N/C + N/C XAC-S499	2.2 kW	XAC-B4913	1.260
		3-pole XES-D2201 (1)	1 N/C + N/C + N/C XAC-S499	3 kW	XAC-B4933	1.390
	4 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54	2-pole XES-D1191 (1)	1 N/C + N/C + N/C XAC-S3991	2.2 kW	XAC-B4911	1.350
		3-pole XES-D2201 (1)	1 N/C + N/C + N/C XAC-S3991	3 kW	XAC-B4931	1.480



XAC-B219
XAC-B220



XAC-B3191
XAC-B3201



XAC-B491
XAC-B493



XAC-B4913
XAC-B4933



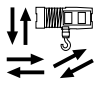
XAC-B4911
XAC-B4931

(1) Reference of double contact block for reversing operation.

Control stations and enclosures

Pendant control stations, for power circuits (direct switching)
 Double insulated, type XAC-B
 Complete stations "ready for use"

For control of single-speed motors (continued)

Functions	Number of operators	Contact blocks Per direction	"Emergency stop"	Maximum rated power 400 V	Reference	Weight kg
	6 mechanically interlocked between pairs	2-pole XES-D1191 (1)	–	2.2 kW	XAC-B691	1.350
		3-pole XES-D2201 (1)	–	3 kW	XAC-B693	1.550
	6 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54	2-pole XES-D1191 (1)	1 N/C + N/C + N/C XAC-S499	2.2 kW	XAC-B6913	1.410
		3-pole XES-D2201 (1)	1 N/C + N/C + N/C XAC-S499	3 kW	XAC-B6933	1.610
	6 mechanically interlocked between pairs + 1 latching "Emergency stop" Ø 40 mm operator mounted in base ZA2-BS54	2-pole XES-D1191 (1)	1 N/C + N/C + N/C XAC-S3991	2.2 kW	XAC-B6911	1.500
		3-pole XES-D2201 (1)	1 N/C + N/C + N/C XAC-S3991	3 kW	XAC-B6931	1.700



XAC-B691
XAC-B693



XAC-B6913
XAC-B6933



XAC-B6911
XAC-B6931




XAC-B229



XAC-B3291

For control of 2-speed motors

Functions	Number of operators	Contact blocks Per direction	"Emergency stop"	Maximum rated power 400 V	Reference	Weight kg
	2 mechanically interlocked	2-pole XES-D1291 (1)	–	2.2 kW	XAC-B229	0.405
	2 mechanically interlocked + 1 latching "Emergency stop" Ø 40 mm operator ZA2-BS54	2-pole XES-D1291 (1)	1 N/C + N/C + N/C XAC-S499	2.2 kW	XAC-B3291	0.990

(1) Reference of double contact block for reversing operation.

Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated, type XAC-B
 Empty enclosures

Empty enclosures for control circuits or power circuits (1)



Description	Protective sleeve	Number of ways	Cut-out in base of enclosure	Reference	Weight kg
Empty enclosures (1) Double insulated for "Small hoist" applications Operator cut-out centres : 40 mm	For cable Ø 7...13 mm	2	Without	XAC-B020	0.760
		3	Without	XAC-B030	0.760



Empty enclosures (1) Double insulated for "General purpose" application Operator cut-out centres : 40 mm	For cable Ø 10...22 mm	2	Without	XAC-B02	0.760
			With	XAC-B021	0.760



	4		Without	XAC-B04	1.000
			With	XAC-B041	1.000



	6		Without	XAC-B06	1.160
			With	XAC-B061	1.160

	8		Without	XAC-B08	1.330
			With	XAC-B081	1.330

	12 in 2 rows of 6		Without	XAC-B12	1.460
			With	XAC-B121	1.460

(1) Enclosure comprising :
 - the enclosure,
 - protective cable sleeve,
 - cable tie (for tightening sleeve onto cable),
 - internal cable clamp,
 - suspension ring,
 - bezel tightening key.

Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated, type XAC-B
 Empty enclosures

Empty enclosures for control circuits or power circuits (1)



XAC-B02●●

XAC-B04●●



XAC-B06●●



XAC-B08●●



XAC-B12●●

Description	Protective sleeve	Number of ways	Cut-out in base of enclosure	Reference	Weight kg
Empty enclosures (1) Double insulated for "General purpose" applications Operator cut-out centres : 40 mm	For cable Ø 22...35 mm	2	Without	XAC-B025	0.960
			With	XAC-B0215	0.960
		4	Without	XAC-B045	1.200
			With	XAC-B0415	1.200
		6	Without	XAC-B065	1.360
			With	XAC-B0615	1.360
		8	Without	XAC-B085	1.530
			With	XAC-B0815	1.530
		12 in 2 rows of 6	Without	XAC-B125	1.660
			With	XAC-B1215	1.660

(1) Enclosure comprising :
 - the enclosure,
 - protective cable sleeve,
 - cable tie (for tightening sleeve onto cable),
 - internal cable clamp,
 - suspension ring,
 - bezel tightening key.

Control stations and enclosures

Pendant control stations, for control circuits
Double insulated or metal, types XAC-B and XAC-M
Empty enclosures

XAC-M: for maintenance only

Empty enclosures for control circuits (1)

Description	Protective sleeve	Number of ways	Cut-out in base of enclosure	Reference	Weight kg
Empty enclosures (1) Double insulated for "General purpose" applications Operator cut-out centres : 30 mm	For cable Ø 10...22 mm	12 in 1 row	Without	XAC-B120	1.330
			With	XAC-B1201	1.330
	For cable Ø 22...35 mm	12 in 1 row	Without	XAC-B1205	1.530
			With	XAC-B12015	1.530
Empty enclosures (1) Metal for "General purpose" applications Operator cut-out centres : 40 mm	For cable Ø 10...22 mm	4	Without	XAC-M04	1.540
			With	XAC-M041	1.540
		8	Without	XAC-M08	2.210
			With	XAC-M081	2.210
	For cable Ø 22...35 mm	4	Without	XAC-M045	1.740
			With	XAC-M0415	1.740
	8	Without	XAC-M085	2.410	
		With	XAC-M0815	2.410	



XAC-B120



XAC-M04



XAC-M08

Variable composition stations, pre-assembled

Use Order form, page 59

Equipment : contact blocks,
operating heads and signalling units,
complementary accessories

See separate components
pages 42 to 54

1) Enclosure comprising :
- the enclosure,
- protective cable sleeve,
- cable tie (for tightening sleeve onto cable),
- internal cable clamp,
- suspension ring,
- bezel tightening key.

Characteristics :
page 34

Illustrations :
page 58

Dimensions :
page 55

Schemes :
pages 56 and 57

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated or metal, types XAC-B and XAC-M
 Separate components

Contact blocks for front mounting, slow break



XEN-C1111



XEN-B1181



XEN-D2611

Description	Application	Function	Scheme	Operator centres mm	Reference	Weight kg
Spring return						
Single block 1 spring return operator	Single speed	N/O		30 or 40	XEN-C1111	0.020
		N/C		30 or 40	XEN-C1121	0.020
		N/O + N/O		30 or 40	XEN-C1131	0.020
		N/C + N/C		30 or 40	XEN-C1141	0.020
		N/C + N/O		30 or 40	XEN-C1151	0.020
		C/O + N/O		30 or 40	XEN-B1491	0.050
	2-speed	2 step N/O + N/O staggered		30 or 40	XEN-B1181	0.050
		2 step C/O + N/O staggered		30 or 40	XEN-B1191	0.050
Double block 2 spring return operators mechanically interlocked	Single speed	N/O + N/O simultaneous		30	XEN-D1611	0.110
				40 (1)	XEN-D2611	0.110
	2-speed	2 step N/O + N/O staggered		30	XEN-D1621	0.110
				40 (1)	XEN-D2621	0.110

(1) These contact blocks cannot be mounted in XAC-B120 enclosures (12-way arranged in 1 row).

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated or metal, types XAC-B and XAC-M
 Separate components

Contact blocks for front mounting, slow break (continued)

Description	Application	Function	Scheme	Operator centres mm	Reference	Weight kg
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Spring return (continued)

Double block 2 spring return operators mechanically interlocked	Single speed	C/O + N/O		30	XEN-D1631	0.110
				40 (1)	XEN-D2631	0.110
	2-speed	2 step C/O + N/O staggered		30	XEN-D1641	0.110
				40 (1)	XEN-D2641	0.110



XEN-D2641



XEN-D3801

Latching

Double block 1 latching operator released by 1 spring return operator	Single speed	N/C + N/O		30	XEN-D3801	0.170
				40 (1)	XEN-D4801	0.170
Double block 2 latching operators	Single speed	N/C + N/O		30	XEN-D3811	0.170
				40 (1)	XEN-D4811	0.170



XES-B2011

Contact blocks for front mounting, snap action

Description	Application	Function	Scheme	Operator centres mm	Reference	Weight kg
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Spring return

Single block 1 spring return operator (2)	Single speed	C/O		40 (1)	XES-B2011	0.030
Double block 2 spring return operators mechanically interlocked	Single speed	C/O		40 (1)	XES-D1181	0.140
				40 (1)	XES-D1281	0.190



XES-D1181

(1) These contact blocks cannot be mounted in XAC-B120 enclosures (12-way arranged in 1 row).
 (2) Only for mounting with XAC-B91 operators.

Control stations and enclosures

Pendant control stations, for control circuits
 Double insulated or metal, types XAC-B and XAC-M
 Separate components



XAC-S41●

Contact blocks for front mounting (1)

Description	Function	Scheme	Reference	Weight kg
Spring return Slow break Operator centres 30 or 40 mm	N/O		XAC-S411	0.070
	N/C		XAC-S412	0.070
	N/O + N/O		XAC-S413	0.070
	N/C + N/C		XAC-S414	0.070
	N/C + N/O		XAC-S415	0.070



XAC-S4111

Contact blocks for base mounting (1)

Description	Function	Scheme	Reference	Weight kg
Spring return Slow break	N/O		XAC-S4111	0.100
	N/C		XAC-S4121	0.100
	N/O + N/O		XAC-S4131	0.100
	N/C + N/C		XAC-S4141	0.100
	N/C + N/O		XAC-S4151	0.100



XAC-V06

Pilot light bodies for front mounting

Description	Supply voltage	Scheme	Reference	Weight kg
Direct supply Bulb not included (2)	≤ 400 V		XAC-V06	0.050
Direct supply, through resistor Incandescent BA 9s base fitting 130 V bulb included	230 V		XAC-V07	0.055

(1) Mounting with ZA2-B●●● operating heads (see page 47).

(2) Bulb types for use with direct supply : BA 9s base fitting incandescent bulb $V \leq 130$ V or neon bulb 110 V $\leq U \leq 400$ V; maximum power 2.6 W, maximum \varnothing 11 mm, maximum length 26 mm. See page 50.

Control stations and enclosures

Pendant control stations, for power circuits (direct switching)
 Double insulated, type XAC-B
 Separate components

Contact blocks, snap action



XES-D1191

Description	Application	Function	Max. rated power/400 V	Scheme	Reference	Weight kg
Double block 2-pole 2 spring return operators mechanically interlocked	Single speed	N/O + N/O	2.2 kW		XES-D1191	0.140
Operator centres : 40 mm	2-speed	N/O + N/O + 1 C/O staggered auxiliary contact (1)	2.2 kW		XES-D1291	0.190



XES-D2201

Double block 3-pole 2 spring return operators mechanically interlocked	Single speed	N/O + N/O + N/O	3 kW		XES-D2201	0.200
Operator centres : 40 mm		N/O + N/O + N/O + 1 N/O simultaneous auxiliary contact (1)	3 kW		XES-D2241	0.210



XAC-S399

Isolating block, slow break

In the interests of safety, it is imperative that these isolating blocks only be used with a stay put or latching type operating head to ensure complete isolation when the pendant station is not in use.



XAC-S499

Mounting position	Application	Function	Max. rated power/400 V	Scheme	Reference	Weight kg
On front 40 mm centres (2)	Emergency stop	N/C + N/C + N/C with positive opening operation	3 kW		XAC-S399	0.100
On front 30 mm centres (2)	Emergency stop	N/C + N/C + N/C with positive opening operation	3 kW		XAC-S499	0.100
In base (3)	Emergency stop	N/C + N/C + N/C with positive opening operation	3 kW		XAC-S3991	0.110

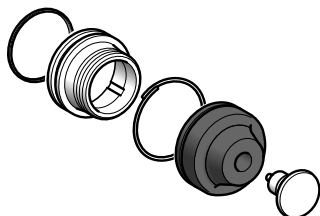
- (1) Auxiliary contacts are slow break.
- (2) Mounting with ZA2-B●●● operating heads, except ZA2-BD● and ZA2-DG● (see page 47).
- (3) Mounting with ZA2-BS14 operating head (see page 47).



XAC-S3991

Control stations and enclosures

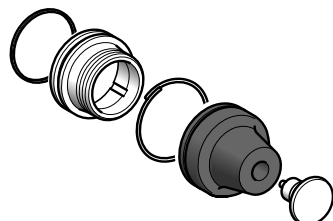
Pendant control stations, for control or power circuits
Double insulated or metal, types XAC-B and XAC-M
Separate components



XAC-B911●

Booted operators (Sold in lots of 10)

For use with contact block	Travel	Operating temperature	Colour of insert	Unit reference	Weight kg
XEN-B●●●● XEN-C●●●● XEN-D●●●● XES-B2011 XES-D2201 XES-D2241 XES-D2251	4 mm	- 25...+ 70 °C (1)	White	XAC-B9111	0.005
			Black	XAC-B9112	0.005
			Green	XAC-B9113	0.005
			Red	XAC-B9114	0.005
			Yellow	XAC-B9115	0.005
			Blue	XAC-B9116	0.005
		- 40...+ 70 °C (2)	White	XAC-B9121	0.005
			Black	XAC-B9122	0.005
			Green	XAC-B9123	0.005
			Red	XAC-B9124	0.005
			Yellow	XAC-B9125	0.005
			Blue	XAC-B9126	0.005
XES-D1181 XES-D1191 XES-D1281 XES-D1291	16 mm	- 25...+ 70 °C (1)	White	XAC-B9211	0.005
			Black	XAC-B9212	0.005
			Green	XAC-B9213	0.005
			Red	XAC-B9214	0.005
			Yellow	XAC-B9215	0.005
			Blue	XAC-B9216	0.005
		- 40...+ 70 °C (2)	White	XAC-B9221	0.005
			Black	XAC-B9222	0.005
			Green	XAC-B9223	0.005
			Red	XAC-B9224	0.005
			Yellow	XAC-B9225	0.005
			Blue	XAC-B9226	0.005
- 40...+ 70 °C (2)	White	XAC-B9221	0.005		
	Black	XAC-B9222	0.005		
	Green	XAC-B9223	0.005		
	Red	XAC-B9224	0.005		
	Yellow	XAC-B9225	0.005		
	Blue	XAC-B9226	0.005		
- 40...+ 70 °C (2)	White	XAC-B9221	0.005		
	Black	XAC-B9222	0.005		
	Green	XAC-B9223	0.005		
	Red	XAC-B9224	0.005		
	Yellow	XAC-B9225	0.005		
	Blue	XAC-B9226	0.005		
- 40...+ 70 °C (2)	White	XAC-B9221	0.005		
	Black	XAC-B9222	0.005		
	Green	XAC-B9223	0.005		
	Red	XAC-B9224	0.005		
	Yellow	XAC-B9225	0.005		
	Blue	XAC-B9226	0.005		



XAC-B921●

Booted operators (silicone boot)

For use with contact block	Operating temperature	Colour of boot	Reference	Weight kg
XAC-S41●	- 25...+ 70 °C	Black	ZA2-BP2	0.015
		Green	ZA2-BP3	0.015
		Red	ZA2-BP4	0.015
		Yellow	ZA2-BP5	0.015
		Blue	ZA2-BP6	0.015



ZA2-BP●

(1) Polychloropren boots.
(2) Silicone boots.

Control stations and enclosures

Pendant control stations, for control or power circuits
Double insulated or metal, types XAC-B and XAC-M
Separate components

Operating heads for front or base mounting (1)

Description	Colour	Type	Reference	Weight kg
Mushroom head, latching Turn to release (Emergency stop)	Red	Ø 30 mm	ZA2-BS44	0.028
		Ø 40 mm	ZA2-BS54	0.033
Mushroom head, latching Key release - Ronis no 455 Key withdrawal in rest (unactuated) position (Emergency stop)	Red	Ø 30 mm	ZA2-BS74	0.060
		Ø 40 mm	ZA2-BS14	0.065
Selector switches, standard handle	Black	2 position stay put	ZA2-BD2	0.018
		3 position stay put (2)	ZA2-BD3	0.018
Key switches (Ronis key no 455) Key withdrawal in left and right hand positions	-	2 position stay put	ZA2-BG4	0.042
		3 position stay put (2)	ZA2-BG5	0.042
Wobblesticks Operates in all directions, for "Fast stop" function	Black	-	ZA2-BB2	0.060
	Red	-	ZA2-BB4	0.060

Operating head for isolating block

Description	Colour	Type	Reference	Weight kg
Latching mushroom head Key release (Ronis key n° 455) Key withdrawal in rest (unactuated) position (Emergency stop)	Red	Ø 40 mm	ZA2-BS14	0.065

Pilot light heads

Description	Colour	Reference	Weight kg
For use with incandescent bulbs			
Lens cap 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		
Lens cap with fixing bezel	Green	ZA2-BV033	0.015
	Red	ZA2-BV043	0.015
	Yellow	ZA2-BV053	0.015
	Clear	ZA2-BV073	0.015

(1) The technical characteristics of XAC-B and M pendant control stations can only be guaranteed by using the ZA2-B●● operating heads listed above.

(2) Only suitable for front mounting.

Other versions

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



ZA2-BS54



ZA2-BS14



ZA2-BD●



ZA2-BG●



ZA2-BB●



ZA2-BV0●

Environment

Conforming to standards		IEC 947-5-1, EN 60947-5-1
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40... + 70
Degree of protection		IP 65 conforming to IEC 529
Pushbutton operator travel	mm	11
Operating force	N	4 (start of travel) - 9 (end of travel)
Mechanical durability	Op. cycles	1 million
Cabling	mm ²	Terminal connectors. Capacity : 2 x 1.5 mm ² or 1 x 2.5 mm ²

Contact block characteristics

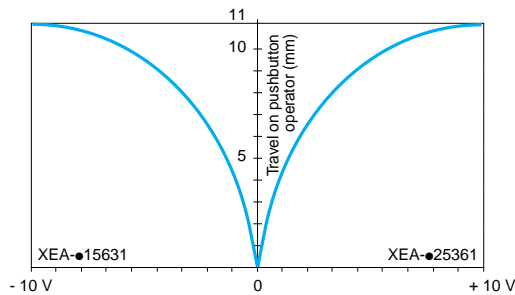
Rated thermal current (I _{the})	A	6
Rated insulation voltage (U _i)	V	250, degree of pollution 3 conforming to IEC 947-1
Rated operational power conforming to 947-5-1 Appendix C Utilisation categories AC-15 & DC-13	a.c. supply ~ 50/60 Hz Power broken in VA for 1 million operating cycles	
	d.c. supply --- Power broken in W for 1 million operating cycles	
Inductive circuit	Voltage V	48 110 230
	VA	30 30 30
Resistive circuit	Voltage V	48 110
	W	48 12

Analogue circuit characteristics

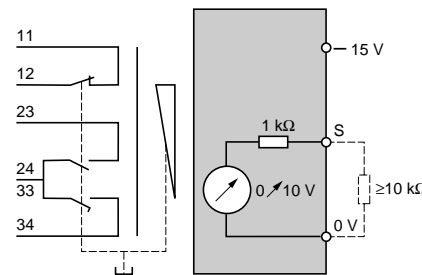
Type of current		d.c.
Rated supply voltage	V	15
Voltage limits	V	14...18
Current consumption	mA	<15

Analogue signal output curves and schemes

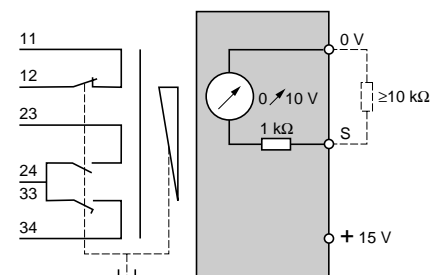
Analogue signal output curves
with 15 V supply voltage



Equivalent output schemes
XEA-15631



XEA-25361



Note : Supply voltage = 15 V, output voltage = 10 V
 (if supply voltage < 15 V, output voltage < 10 V)

Contact state



(1) Pushbuttons providing an analogue output signal proportional to the distance travelled by the pushbutton operator.

Control stations and enclosures

Pendant control stations, for control circuits
Double insulated or metal, types XAC-B and XAC-M
Separate components : pushbuttons with analogue output

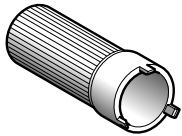
References



XEA-C5361



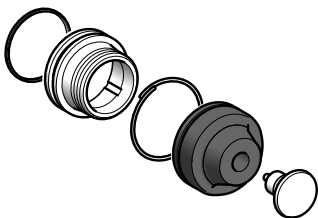
XEA-B5361



ZA2-BZ905



XAC-X1



XAC-B9112

Complete pushbuttons (body/contact assembly + operating head) - standard, non booted (1)

Supply voltage	Contact block	Reference	Weight kg
0... - 15 V	N/C + N/O at start of travel N/O at end of travel	XEA-C15361	0.065
0... + 15 V	N/C + N/O at start of travel N/O at end of travel	XEA-C25361	0.065

Complete pushbuttons (body/contact assembly + operating head) - booted (1)

Supply voltage	Contact block	Reference	Weight kg
0... - 15 V	N/C + N/O at start of travel N/O at end of travel	XEA-B15361	0.065
0... + 15 V	N/C + N/O at start of travel N/O at end of travel	XEA-B25361	0.065

Mounting accessories

Description	For use with	Reference	Weight kg
Fixing nut socket wrench	XEA-C5361	ZA2-BZ905	0.060
	XEA-B5361	XAC-X1	0.010

Accessories and spare parts

Description	Colour of insert	Unit reference	Weight kg
Booted operator (Sold in lots of 10)	White	XAC-B9111	0.005
	Black	XAC-B9112	0.005

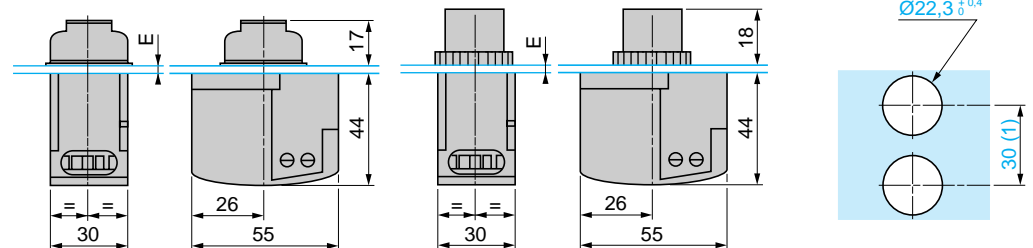
(1) Pushbuttons delivered with 1 white insert and 1 black insert.

Dimensions

XEA-B5361

XEA-C5361

Panel cut-out



E = panel thickness, 1 to 3.5 mm

(1) Minimum fixing centres between 2 operators.

Control stations and enclosures

Pendant control stations, for control or power circuits
Double insulated or metal, types XAC-B and XAC-M
Accessories and spare parts

Bulbs (Sold in lots of 10)

Description	Voltage	Unit reference	Weight kg
Incandescent 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
	130 V	DL1-CE130	0.002
Neon BA 9s base fitting Maximum power : 2.6 W Maximum Ø : 11 mm Maximum length : 28 mm	120 V	DL1-CF110	0.002
	230 V	DL1-CF220	0.002
	400 V	DL1-CF380	0.002



DL1-C●●●●



DL1-CF●●●

Accessories for booted operators (Sold in lots of 10)

Description	Travel	Material / Colour	Operating temperature	Unit reference	Weight kg
Boots with circlip, without coloured insert	4 mm	Polychloroprene	- 25...+ 70° C	XAC-B911	0.002
		Silicone	- 40...+ 70° C	XAC-B912	0.002
	16 mm	Polychloroprene	- 25...+ 70° C	XAC-B921	0.002
		Silicone	- 40...+ 70° C	XAC-B922	0.002
Coloured inserts for booted operators (4 and 16 mm travel)		White	-	XAC-B901	0.001
		Black	-	XAC-B902	0.001
		Green	-	XAC-B903	0.001
		Red	-	XAC-B904	0.001
		Yellow	-	XAC-B905	0.001
		Blue	-	XAC-B906	0.001
		Brown	-	XAC-B909	0.001



XAC-B91●



XAC-B92●



XAC-B90●

Control stations and enclosures

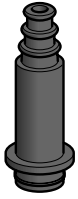
Pendant control stations, for control or power circuits
Double insulated or metal, types XAC-B and XAC-M
Accessories, tools

Complementary accessories

Description	Application	Reference	Weight kg
Protective cable sleeves with cable tie (for tightening sleeve onto cable)	Enclosures XAC-B219 and XAC-B220 (2-way)	For cable Ø 7...13 mm	XAC-B913 0.065
	Enclosures XAC-B●●● 4 to 12 way and XAC-M●●● 4 and 8 way	For cable Ø 10...22 mm	XAC-B960 0.110
		For cable Ø 22...35 mm	XAC-B965 0.160
Blanking plug with seal and fixing nut	–	ZB2-SZ3	0.005
Adaptor for use with protective cable sleeves for cable Ø 10...22 mm	Self-supporting cable type BBAP	XAC-B961	0.025
Lower support ring	Single row enclosures XAC-B and XAC-M	XAC-B971	0.015
	2 row enclosures XAC-B	XAC-B972	0.020
Protective guards for base mounted units	Mushroom head pushbutton	XAC-B983	0.050
	Key release latching mushroom head pushbutton	XAC-B982	0.050

Tools

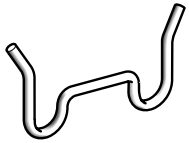
Description	Application	Reference	Weight kg
Tightening key	For bezels	XAC-X1	0.010
	For mounting units in base of enclosure	XAC-X905	0.015
Bulb extractor	BA 9s base fitting bulbs	XBF-X13	0.003



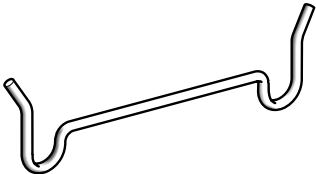
XAC-B913



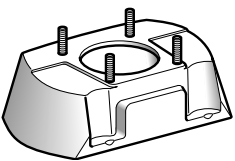
XAC-B960



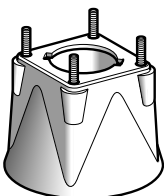
XAC-B971



XAC-B972



XAC-B983



XAC-B982



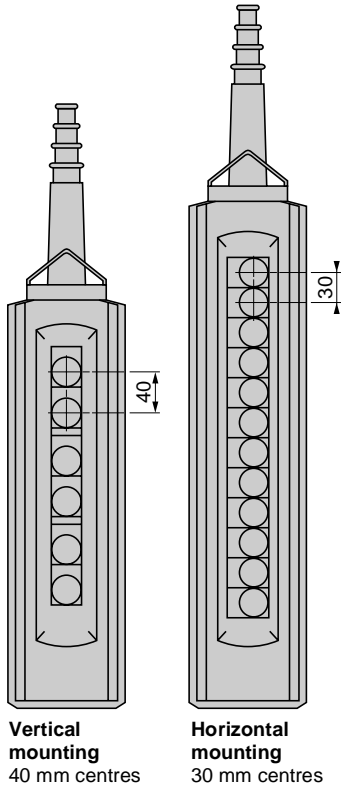
XAC-X1



XAC-X905

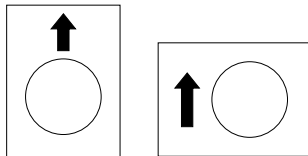
Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated or metal, types XAC-B and XAC-M
 Legend plates 30 x 40 mm with symbols conforming to NF E 52-124



Vertical mounting
40 mm centres

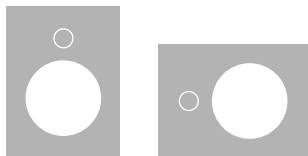
Horizontal mounting
30 mm centres



Black symbol, white background



White symbol, black background

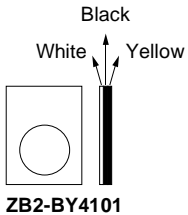
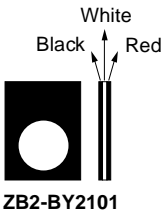


White symbol, red background

Function Symbol	Reference	Function Symbol	Reference	Weight kg	Function Symbol	Reference	Function Symbol	Reference	Weight kg
Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres			Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres		
↑	ZB2-BY4951	↑	ZB2-BY4901	0.001	↓	ZB2-BY2954	↓	ZB2-BY2904	0.001
↑↑	ZB2-BY4952	↑↑	ZB2-BY4902	0.001	↓↓	ZB2-BY2955	↓↓	ZB2-BY2905	0.001
↑	ZB2-BY4953	↑	ZB2-BY4903	0.001	↓	ZB2-BY2956	↓	ZB2-BY2906	0.001
→	ZB2-BY4901	→	ZB2-BY4907	0.001	←	ZB2-BY2904	←	ZB2-BY2910	0.001
⇒	ZB2-BY4902	⇒	ZB2-BY4908	0.001	⇄	ZB2-BY2905	⇄	ZB2-BY2911	0.001
→	ZB2-BY4903	→	ZB2-BY4909	0.001	⇄	ZB2-BY2906	⇄	ZB2-BY2912	0.001
↗	ZB2-BY4963	↗	ZB2-BY4913	0.001	↖	ZB2-BY2966	↖	ZB2-BY2916	0.001
↗	ZB2-BY4964	↗	ZB2-BY4914	0.001	↖	ZB2-BY2967	↖	ZB2-BY2917	0.001
↗	ZB2-BY4965	↖	ZB2-BY4915	0.001	↖	ZB2-BY2968	↖	ZB2-BY2918	0.001
↻	ZB2-BY4919	↻	ZB2-BY4919	0.001	↻	ZB2-BY2922	↻	ZB2-BY2922	0.001
↻	ZB2-BY4920	↻	ZB2-BY4920	0.001	↻	ZB2-BY2923	↻	ZB2-BY2923	0.001
↻	ZB2-BY4921	↻	ZB2-BY4921	0.001	↻	ZB2-BY2924	↻	ZB2-BY2924	0.001
⚙	ZB2-BY4933	⚙	ZB2-BY4933	0.001	⚙	ZB2-BY4934	⚙	ZB2-BY4934	0.001
⚙	ZB2-BY4982	⚙	ZB2-BY4932	0.001	⚙	ZB2-BY4985	⚙	ZB2-BY4935	0.001
⏹	ZB2-BY4980	⏹	ZB2-BY4930	0.001	⏹	ZB2-BY2931	⏹	ZB2-BY2931	0.001

Control stations and enclosures

Pendant control stations, for control or power circuits
Double insulated or metal, types XAC-B and XAC-M
Legend plates 30 x 40 mm



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

Other versions

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

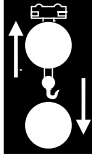
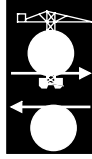
Control stations and enclosures


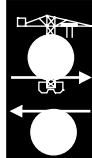
Pendant control stations, for control or power circuits
 Double insulated or metal, types XAC-B and XAC-M
 Twin legend plates for tower cranes

White symbols on black background

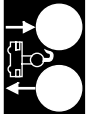
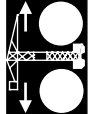
Function	Symbol	Reference	Weight kg	Function	Symbol	Reference	Weight kg
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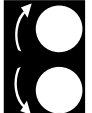
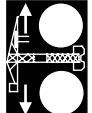
40 mm operator centres (for enclosures 2 to 8-way and 12-way arranged in 2 rows)

Hoist Raise Lower		XAC-Y4970	0.002	Long travel Forward Reverse		XAC-Y4972	0.002
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	

Slew Right Left		XAC-Y4971	0.002	Trolley Forward Reverse		XAC-Y4973	0.002
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	

30 mm operator centres (for 12-way single row enclosures)

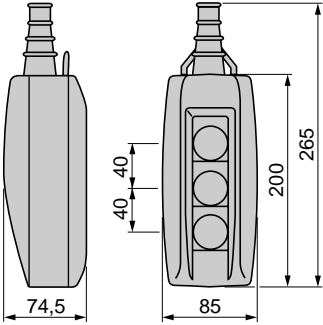
Hoist Raise Lower		XAC-Y3970	0.002	Long travel Forward Reverse		XAC-Y3972	0.002
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	

Slew Right Left		XAC-Y3971	0.002	Trolley Forward Reverse		XAC-Y3973	0.002
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	
		_____	_____			_____	

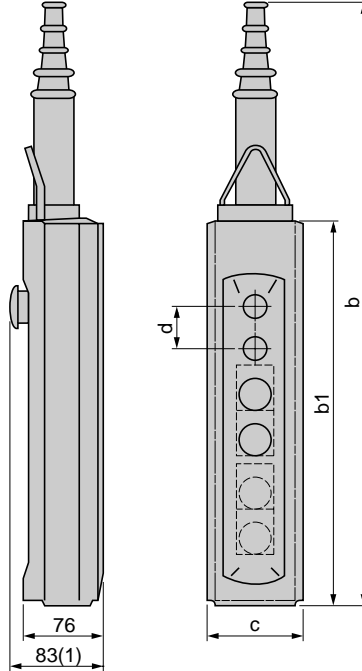
Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated or metal, types XAC-B and XAC-M
 For control or power circuits
XAC-M: for maintenance only

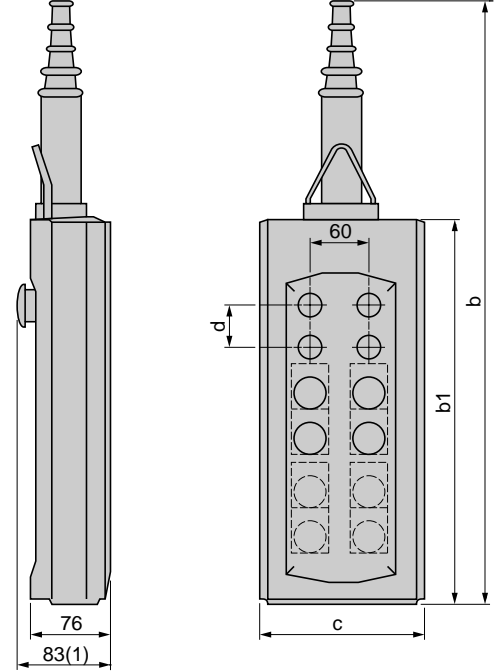
Pendant control stations XAC-B●●● (2 and 3-way)



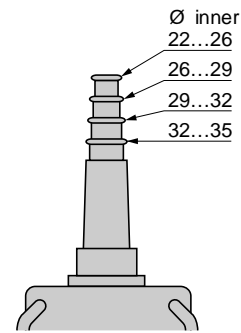
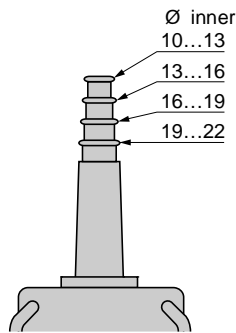
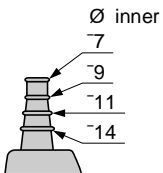
XAC-B●●● (2 to 12-way in 1 row) XAC-M●●● (4 and 8-way in 1 row)



XAC-B●●● (12-way in 2 rows)



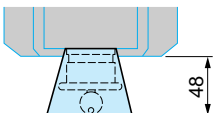
Protective cable sleeves



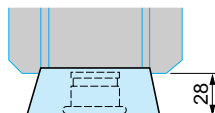
(1) With mushroom head operator

Number of ways	2	4	6	8	12 (1 row)	12 (2 row)
b	409	499	589	679	679	593
b1	220	310	400	490	490	404
c	98	98	98	98	98	158
d	40	40	40	40	30	40

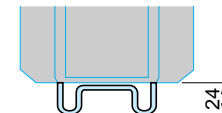
Protective guards for base mounted units XAC-B982



XAC-B983

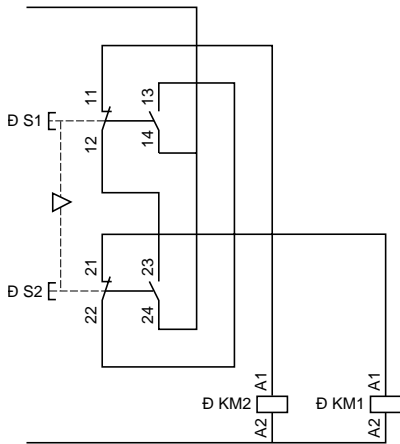


Lower support rings XAC-B971, B972

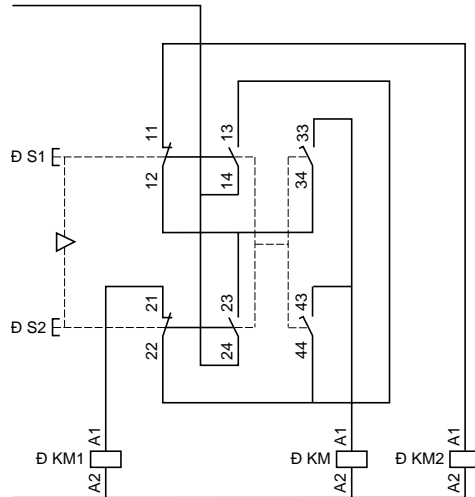


Control circuits

For control of single-speed reversing motor
Contact block **XES-D1181**



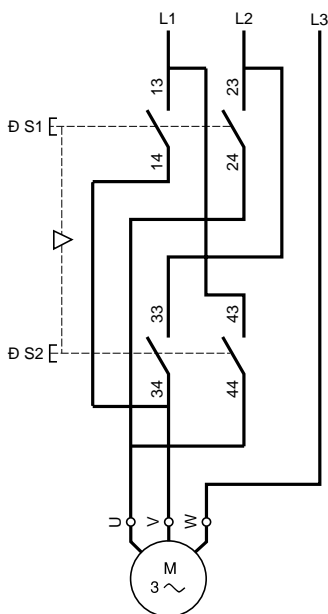
For control of 2-speed reversing motor
Contact block **XES-D1281**



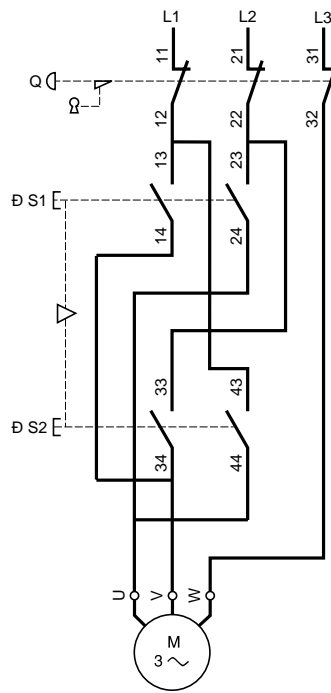
KM : high speed contactor

Power circuits

For single-speed reversing motor. 2-phase switching
Contact block **XES-D1191**



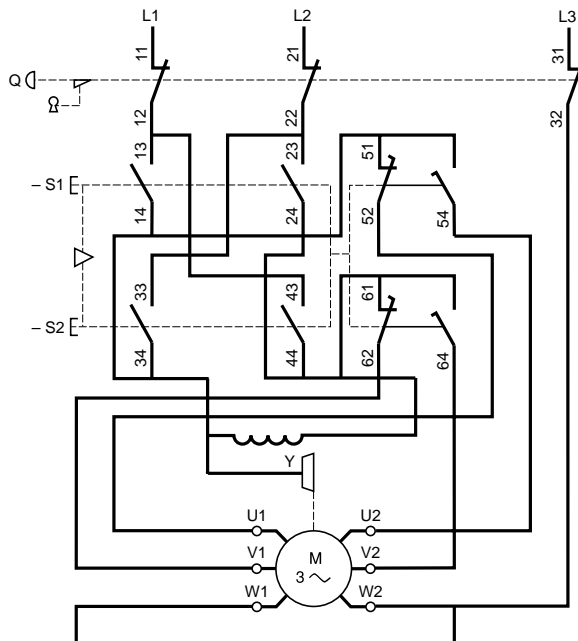
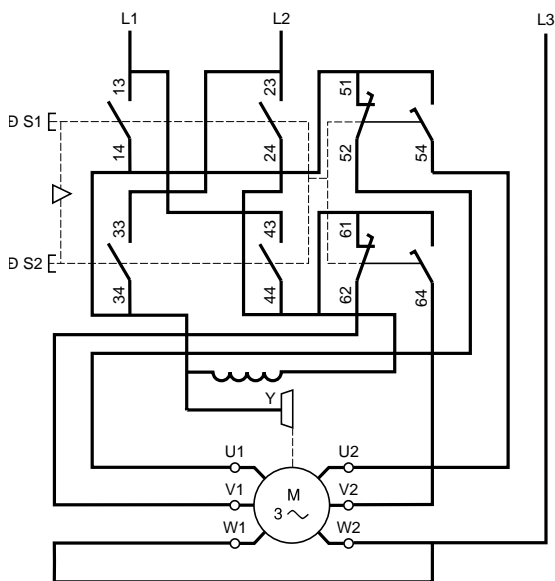
Application example :
ed with 3-pole isolating block XAC-S399 or XAC-S3991, shown in the unoperated position (pendant station "supplied"), fitted with key release latching mushroom head operator (ZA2-BS14).



Power circuits (continued)

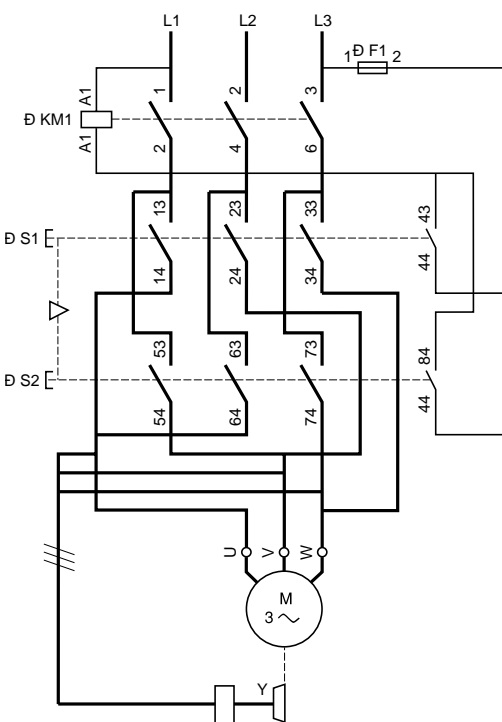
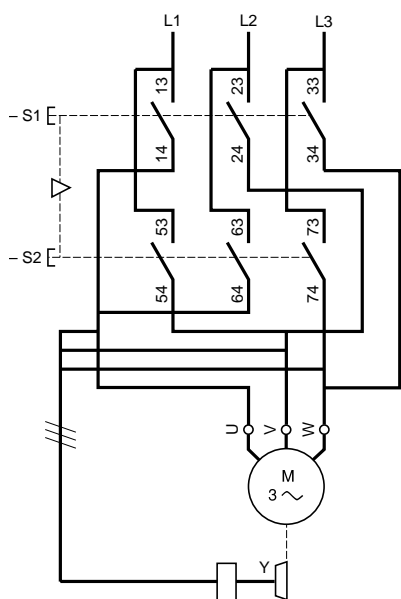
For 2-speed motor (motors with separate windings only). 2-phase switching
Contact block XES-D1291

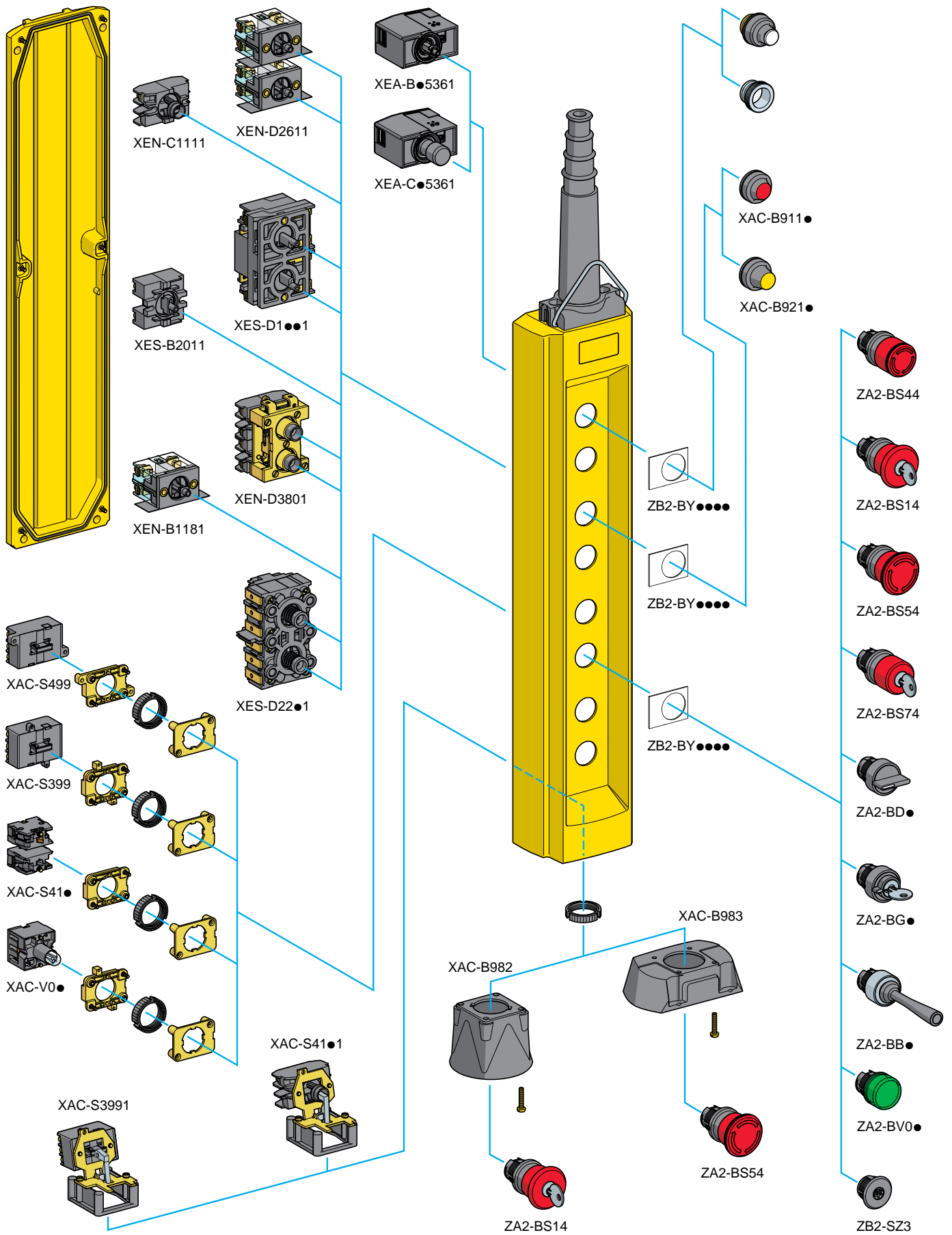
Application example :
Combined with 3-pole isolating block XAC-S399 or XAC-S3991, shown in the unoperated position (pendant station "supplied"), fitted with key release latching mushroom head operator (ZA2-BS14).



For single-speed reversing motor. 3-phase switching, reversing by 2-phase inversion
Contact block XES-D2201

Contact block XES-D2241 with line contactor



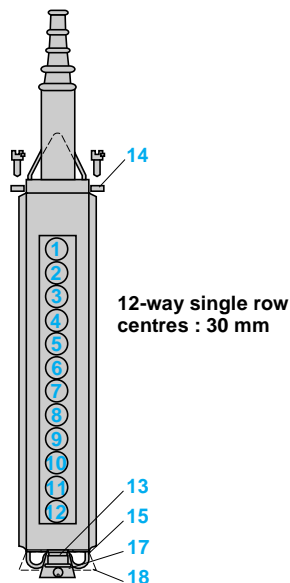
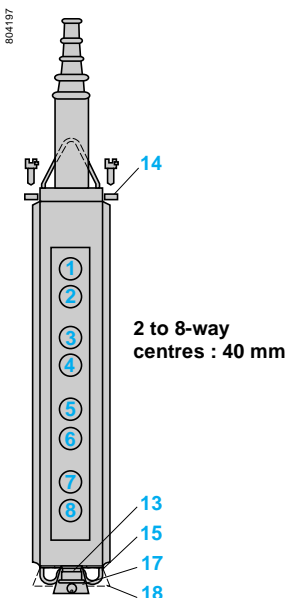
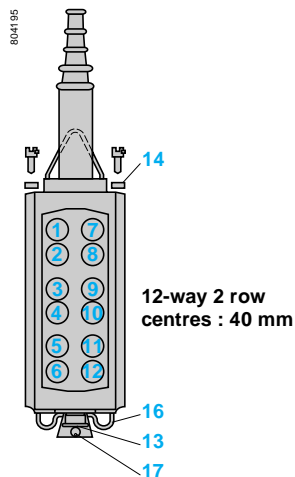


Order form

(specimen suitable for photocopying)

Control stations and enclosures

Pendant control stations, for control or power circuits
 Double insulated or metal, types XAC-B and XAC-M
 Variable composition stations, pre-assembled
XAC-M: for maintenance only



Customer			Schneider Electric	
Company	Order N°	Delivery date	Sales office-Subsidiary Co	Order N°

Enter the order with XAC-B09 reference (for XAC-B enclosure) or with XAC-M09 reference (for XAC-M enclosure)

Unit reference of empty enclosure, see p. 39 to 41	Number of identical stations	Enclosure price (1)
XAC- <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		

Legend plates see pages 52 to 54		Contact blocks or pilot light bodies see pages 42 to 45		Operating heads or pilot light heads or blanking plugs see pages 46 to 51		Total price
Reference	Unit price	Reference	Unit price	Reference	Unit price	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Unit mounted in base of enclosure (if required)						
13						

Pre-assembled	Quantity of operating	X	Additional cost XAC-9VA for	
	<input type="text"/>		<input type="text"/>	<input type="text"/>

Complementary accessories, see page 51
 (enter a cross in the appropriate box or boxes)

Description	Reference	Unit price
14 Adaptor for self-supporting cable type BBAP for use with cable entry sleeve Ø 10 to 22 mm	XAC-B961	
15 Lower support ring for single row enclosures	XAC-B971	
16 Lower support ring for 2 row enclosures	XAC-B972	
17 Protective guard for key release latching mushroom head pushbutton	XAC-B982	
18 Protective guard for mushroom head pushbutton	XAC-B983	

Total price of assembled pendant station

(1) Get the empty enclosure price.

Pendant control stations

Double insulated, type XAC-F

For control circuits

XAC-F: for maintenance only

Environment		
Conforming to standards		IEC 947-5-1, EN 60947-5-1
Protective treatment		Standard version : "TH"
Ambient air temperature	°C	Operation : - 25...+ 70. Storage : - 40...+ 70
Vibration resistance		15 gn (10...500 Hz) conforming to IEC 68-2-6
Shock resistance		100 gn conforming to IEC 68-2-27
Electric shock protection		Class II conforming to IEC 536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 529 ; IK 08 conforming to EN 50102
Mechanical durability	Op. cycles	1 million
Enclosure		Double insulated glass-reinforced polyester, coloured yellow throughout
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 10...Ø 22 mm or Ø 22...Ø 35 mm

Contact block characteristics		
Rated operational characteristics		~ AC-15 : A300 or Ue = 240 V, Ie = 3 A --- DC-13 : Q300 or Ue = 250 V, Ie = 0.27 A conforming to IEC 947-5-1 Appendix A
Thermal current (Ithe)	A	10
Rated insulation voltage (Ui)	V	XEN-C●●●●, XEN-D3●●●, XEN-D4●●●, XES-B2011, XAC-S4, XES-D1181, XES-D1281 : 500, degree of pollution 3 XEN-B●●●●, XEN-D1●●●, XEN-D2●●● : 400, degree of pollution 3 conforming to IEC 947-1
Rated impulse withstand voltage (U imp)	kV	6 conforming to IEC 947-1
Positive operation		Mushroom head pushbutton : N/C contact with positive opening operation to IEC 947-5-1 Section 3
Contact operation		Slow break or snap action
Resistance across terminals	mΩ	≤ 25
Operating force	N	With booted operator : XAC-S4●●● : 10 (N/O), 8 (N/C) ; XEN-C●●●● : 6 (N/O), 4 (N/C) ; XEN-B●●●●, XEN-D1●●●, XEN-D2●●● : Single-speed : 9, 2-speed : 20 (1 st speed), 30 (2 nd speed) ; XEN-D3●●●, XEN-D4●●● : 25 ; XES-B2011 : 7 ; XES-D1181, XES-D1281 : 15 (1 st speed), 25 (2 nd speed) With mushroom head operator, spring return : 10, latching : 40
Terminal referencing		By numbers conforming to CENELEC EN 50013
Short-circuit protection		10A cartridge fuse type gG (gl)
Cabling	mm ²	Screw and captive cable clamp terminals. Capacity : 1 x 2.5 or 2 x 1.5 with or without cable end

Rated operational power conforming to IEC 947-5-1 Appendix C Utilisation categories AC-15 & DC-13	Contact blocks XEN-C●●●●, XEN-D3●●●, XEN-D4●●●, XAC-S4●●●								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
For 1 million operating cycles	Voltage V	24	48	127	230	Voltage V	24	48	120
Operating rate : 3600 op. cycles/hour	mm VA	140	385	525	455	mm W	60	45	42
Load factor : 0.5									
mm Inductive circuit									
	Contact blocks XEN-B●●●●, XEN-D1●●●, XEN-D2●●●								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
	Voltage V	24	48	127	230	Voltage V	24	48	120
	mm VA	140	210	640	680	mm W	48	31	35
	Contact blocks XES-B2011, XES-D1181, XES-D1281								
	a.c. supply ~ 50/60 Hz				d.c. supply ---				
	Voltage V	24	48	127	230	Voltage V	24	48	120
	mm VA	50	100	450	750	mm W	140	140	95

References :
page 61

Dimensions :
page 62

Schemes :
page 63

Pendant control stations

Double insulated, type XAC-F

For control circuits

Empty enclosures

XAC-F: for maintenance only

Empty enclosures (1)

Description	Protective cable sleeve	Reference	Weight kg
Enclosures without cut-outs	Without guard rails	Ø 10...22 mm	XAC-F0010 2.100
		Ø 22...35 mm	XAC-F0050 2.300
	With guard rails	Ø 10...22 mm	XAC-F0011 2.300
		Ø 22...35 mm	XAC-F0051 2.500
Enclosures with cut-outs in positions requested on Order form, see page 65	Without guard rails	Ø 10...22 mm	XAC-F3210 2.100
		Ø 22...35 mm	XAC-F3250 2.300
	With guard rails	Ø 10...22 mm	XAC-F3211 2.300
		Ø 22...35 mm	XAC-F3251 2.500



XAC-F0000



XAC-F0001

Variable composition stations, pre-assembled

Use Order form, page 65

Equipment :

Refer to separate components relating to double insulated enclosures for control circuit in the XAC-B and XAC-M
XB2-B blocks can be mounted,
please consult your Regional Sales Office

pages 42 to 54

(1) Enclosure comprising :

- the enclosure,
- protective cable sleeve for Ø 10 to 22 mm or Ø 22 to 35 mm cable,
- cable tie (for tightening sleeve ente cable),
- le internal cable clamp.

Pendant control stations

Double insulated, type XAC-F

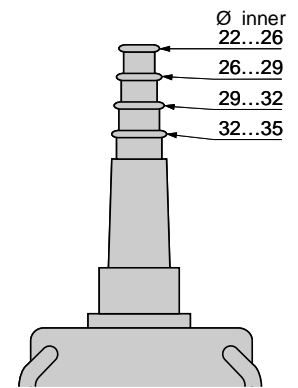
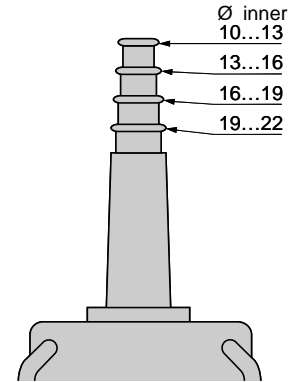
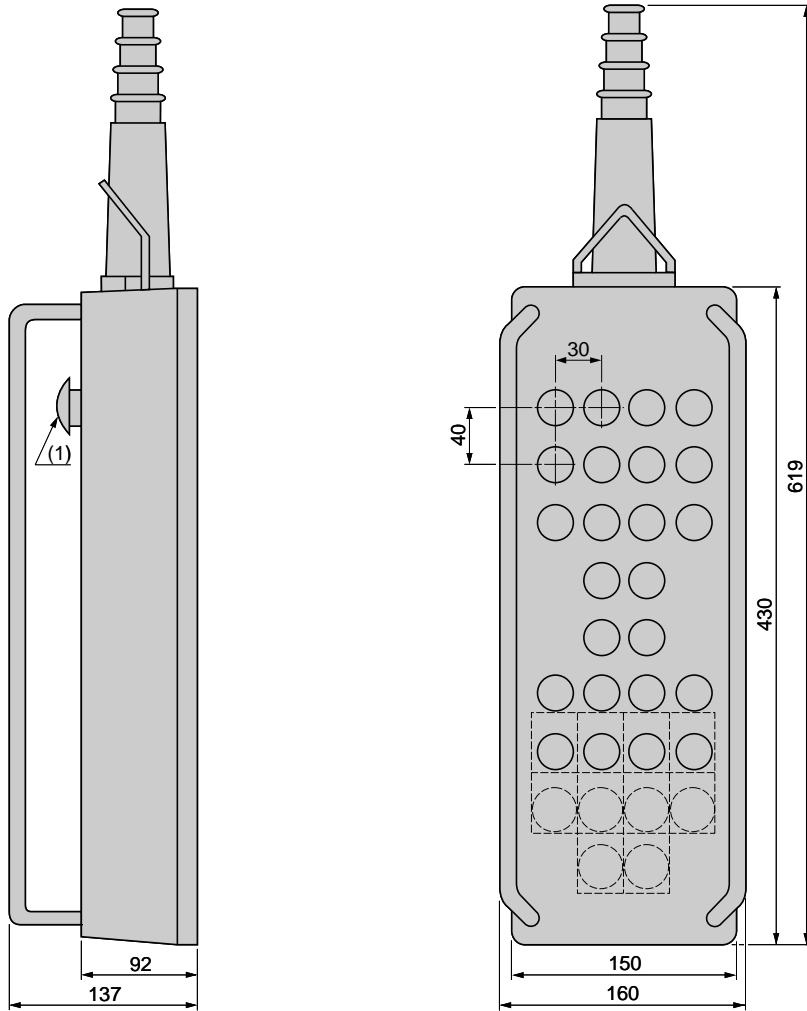
For control circuits

XAC-F: for maintenance only

Pendant control stations

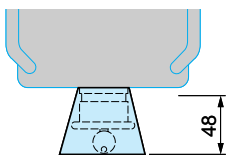
XAC-F●●●1 (30-way maximum, front mounting)

Protective cable sleeves

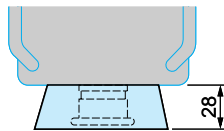


(1) Mushroom head operator

Protective guards for base mounted units
XAC-B982



XAC-B983



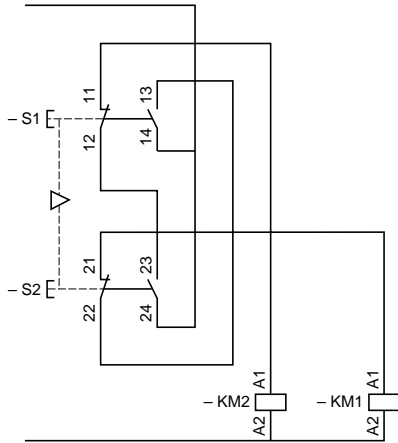
Pendant control stations

Double insulated, type XAC-F

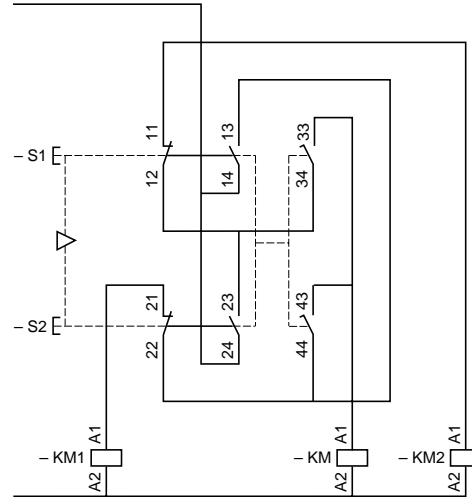
For control circuits

XAC-F: for maintenance only

For control of single-speed reversing motor
Contact block XES-D1181



For control of 2-speed reversing motor
Contact block XES-D1281



KM : high speed contactor

