

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Environment		
Conformity to standards		IEC 947-5-1, EN 60947-5-1
Product certifications	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	For storage	°C - 40...+ 70
	For operation	°C - 25...+ 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 (in millions of operating cycles)		1
Enclosure	XAC B	Double insulated glass-reinforced polyester (colour: yellow)
	XAC M	Aluminium enclosure. Painted yellow
Cable entry		Rubber sleeve with stepped entry diameter for cable Ø 7...13 mm, Ø 10...22 mm or Ø 22...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)	XEN C●●●●, XEN D3●●●, XEN D4●●●, XES B2011, XAC S4, XES D1181, XES D1281	V	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 conforming to IEC 947-5-1 Section 3	
Contact operation		Slow break or snap action	
Resistance across terminals	MΩ	≤ 25	
Operating force	With booted operator	N	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 <sup>st</sup> speed), 30 (2 <sup>nd</sup> speed); XEN D3●●●, XEN D4●●●: 25; XES B2011: 7; XES D1181, XES D128: 15 (1 <sup>st</sup> speed), 25 (2 <sup>nd</sup> speed)
	With spring return mushroom head operator	N	10
	With latching mushroom head operator	N	40
Terminal referencing		By numbers conforming to CENELEC EN 50013	
Short-circuit protection		10 A cartridge fuse type gG (gl)	
Connection	mm <sup>2</sup>	Screw and captive cable clamp terminals. Clamping 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  
For 1 million operating cycles  
Operating rate: 3600 operating cycles/hour  
Load factor: 0.5  
⊞ Inductive circuit

Contact blocks XEN C●●●●, XEN D3●●●, XEN D4●●●, XAC S4●●●										
a.c. supply ~ 50/60 Hz					d.c. supply ≡					
Voltage	V	24	48	127	230	Voltage	V	24	48	120
⊞	VA	140	385	525	455	⊞	W	60	45	42

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

# Pendant control stations

Double insulated, type XAC B

For control circuits

Complete stations "ready for use" (with snap action contact blocks)

For control of single-speed motors					
Functions	Number of operators	Contact blocks and scheme Per direction	Reference	Weight kg	
	2 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B281</b>	0.850	 <p>DF56564</p> <p>XAC B281</p>
	4 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B481</b>	1.100	 <p>DF56565</p> <p>XAC B481</p>
	6 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B681</b>	1.300	 <p>DF56566</p> <p>XAC B681</p>
	8 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B881</b>	1.550	 <p>DF56567</p> <p>XAC B881</p>

# Pendant control stations

Double insulated, type XAC B  
For power circuits (direct switching)

Environment			
Conformity to standards			IEC 947-3, EN 60947-3, NF C 63-130, VDE 0660-107
Product certifications	Standard version		CSA type 4
Protective treatment	Standard version		"TH"
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 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 (in millions of operating cycles)			1
Enclosure			Double insulated glass-reinforced polyester (colour: yellow)
Cable entry			Rubber sleeve with stepped entry diameter for cable Ø 10...Ø 22 mm

Contact block characteristics				
Thermal current (I <sub>the</sub> )	XES D1191, XES D1291	A	12	
	XES D2201, XES D2241, XES D2251	A	20	
Rated insulation voltage (U <sub>i</sub> )	XES D●●●●	V	500, degree of pollution 3, conforming to IEC 947-1	
	XAC S●99	V	400, degree of pollution 3, conforming to IEC 947-1	
	XES D1●●●	V	600, conforming to CSA	
	XES D2●●●	V	300, conforming to CSA	
Rated impulse withstand voltage (U <sub>imp</sub> )		kV	6, conforming to IEC 947-1	
Contact operation			Snap action	
Operating force	XES D1●●●	N	17	
	XES D2●●●	N	32	
Terminal referencing			By numbers conforming to CENELEC EN 50005	
Short-circuit protection	XES D1●●●		10 A maximum cartridge fuse type aM	
	XES D2●●●		12 A maximum cartridge fuse type aM	
Connection		mm <sup>2</sup>	Captive screw clamp terminals Clamping capacity: 1 x 2.5 or 2 x 1.5 with or without cable end	
Rated operational power	3 phases, 2 poles XES D1●●●		Utilisation categories AC-3 and AC-4 conforming to IEC 947-3 Appendix A 2.2 kW-240 V 2.2 kW-400 V	
	3 phases, 3 poles XES D2●●●		3 kW-240 V 3 kW-400 V	
	3 phases, 3 poles, isolating block XAC S●99		Utilisation category AC-23B 3 kW-400 V	
	3 phases, 2 poles XES D1●●●		CSA certification 2 hp-240 V 5 hp-400 V 3 hp-600 V	
	3 phases, 3 poles XES D2●●●		3 hp-240 V	
	Mechanical durability (in millions of operating 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 operating cycles per hour Load factor: 0.4	3 phases, 2 poles XES D1●●●		1.5 kW-240 V = 0.5 2.2 kW-240 V = 0.3 1.5 kW-400 V = 0.8 2.2 kW-400 V = 0.3
		3 phases, 3 poles XES D2●●●		3 kW-240 V = 0.7 3 kW-400 V = 1

# Pendant control stations

Double insulated, type XAC B

For power circuits (direct switching)

Complete stations "ready for use"

DF56568



XAC B219  
XAC B220

DF56569



XAC B3191  
XAC B3201

DF56570



XAC B491  
XAC B493

DF56571



XAC B4913  
XAC B4933

DF56572



XAC B4911  
XAC B4931

## For control of single-speed motors

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

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

## Pendant control stations

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

DF565573



XAC B691  
XAC B693

DF565574



XAC B6913  
XAC B6933

DF565575



XAC B6911  
XAC B6931

DF565576




XAC B229

DF565577




XAC B3291

## For control of single-speed motors (continued)

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

## For control of 2-speed motors

Functions	Number of operators	Contact blocks		Maximum operational power/400 V	Reference	Weight kg
		Per direction	For Emergency stop			
 2 mechanically interlocked		2-pole XES D1291(1)	–	2.2 kW	<b>XAC B229</b>	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	<b>XAC B3291</b>	0.990








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

# Pendant control stations

Double insulated, type XAC B

For control or power circuits

Empty enclosures

		Empty enclosures for control circuits or power circuits (1)					
		Description	Protective cable sleeve	Number of cut-outs	Cut-out in base of enclosure	Reference	Weight kg
DF56578		Empty enclosures (1) Double insulated for "Small hoist" applications Operator cut-out centres: 40 mm	For cable Ø 7...13 mm	2	Without	<b>XAC B020</b>	0.760
				3	Without	<b>XAC B030</b>	0.760
DF56579							
DF56580		Empty enclosures (1) Double insulated for "General purpose" applications Operator cut-out centres: 40 mm	For cable Ø 10...22 mm	2	Without	<b>XAC B02</b>	0.760
					With	<b>XAC B021</b>	0.760
DF56581				4	Without	<b>XAC B04</b>	1.000
					With	<b>XAC B041</b>	1.000
DF56582				6	Without	<b>XAC B06</b>	1.160
					With	<b>XAC B061</b>	1.160
DF56583				8	Without	<b>XAC B08</b>	1.330
					With	<b>XAC B081</b>	1.330
DF56584				12 in 2 rows of 6	Without	<b>XAC B12</b>	1.460
					With	<b>XAC B121</b>	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.

## Pendant control stations

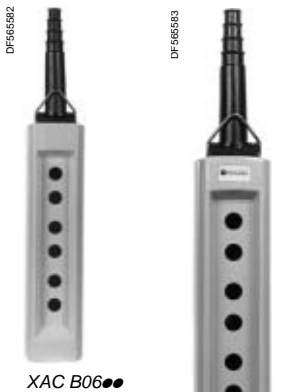
Double insulated, type XAC B

For control or power circuits

Empty enclosures

## Empty enclosures for control circuits or power circuits (1) (continued)

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

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Empty enclosures (XAC M: products for maintenance purposes only)

DF96586



XAC B120

## Empty enclosures for control circuits (1)

Description	Protective cable sleeve	Number of cut-outs	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

DF96587



XAC M08

DF96586



XAC M04

## Variable composition stations, factory assembled

Use the order form on page 30076/27 to define the required configuration

**Equipment:** contact blocks, operating heads (control and signalling), complementary accessories

See separate components, pages 30076/10 to 30076/22

(1) Enclosure comprising:

- the enclosure,
- protective cable sleeve for cable Ø 10...22 mm or Ø 22...35 mm,
- cable tie (for tightening sleeve onto cable),
- internal cable clamp,
- suspension ring,
- bezel tightening key.

# Pendant control stations







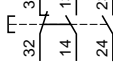


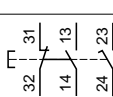






Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components and spare parts

## Contact blocks for front mounting, slow break

Description	Application Function	Scheme	Operator centres mm	Reference	Weight kg	
<b>Spring return</b>						
 <p>XEN C1111</p>	Single-speed N/O 1 spring return operator		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
		 <p>XEN B1181</p>	2-speed 2 step N/O + N/O staggered		30 or 40	XEN B1181
2 step C/O + N/O staggered				30 or 40	XEN B1191	0.050
 <p>XEN D2611</p>	Double block 2 spring return operators mechanically interlocked				30	XEN D1611
			40 (1)	XEN D2611	0.110	
 <p>XEN D1621</p>	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 enclosures XAC B120 (12 operators in 1 row).

## Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components and spare parts

## Contact blocks for front mounting, slow break (continued)

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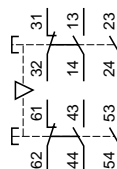
## Spring return (continued)



XEN D2641

**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

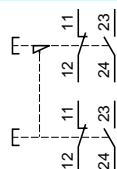


XEN D3801

## Latching

**Double block**  
1 latching operator released  
by 1 spring return operator

Single-speed N/C + N/O

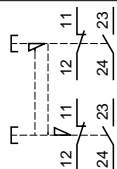


30 XEN D3801 0.170

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



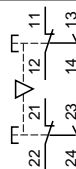
40 (1) XES B2011 0.030



XES D1181

**Double block**  
2 spring return operators  
mechanically interlocked

Single-speed C/O



40 (1) XES D1181 0.140

2-speed C/O + N/O staggered 40 (1) XES D1281 0.190

(1) These contact blocks cannot be mounted in enclosures XAC B120● (12 operators in 1 row).

(2) Only for mounting with operators XAC B91●●.

## Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components and spare parts

530240



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

530240



XAC S411

## 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

DP56595



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 operating heads ZA2 B... (see page 30076/15).

(2) Bulb type for use with direct supply units: BA 9s base fitting incandescent bulb  $U \leq 130$  V or neon bulb  $110$  V  $\leq U \leq 400$  V. Maximum power: 2.6 W, maximum  $\varnothing$ : 11 mm, maximum length: 26 mm. See page 30076/18.

# Pendant control stations

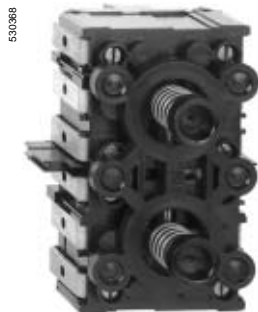
Double insulated, type XAC B

For power circuits (direct switching)

Separate components and spare parts



XES D1191



XES D2201



XAC S399

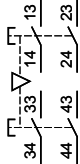
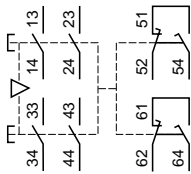
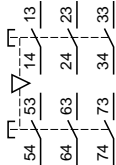
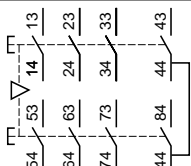
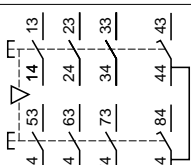


XAC S499



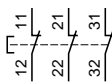
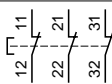
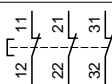
XAC S3991

## Contact blocks, snap action

Description	Application Function	Max. power/ Scheme 400 V	Reference	Weight kg
<b>Double block 2-pole</b> 2 spring return operators mechanically interlocked (operator centres: 40 mm)	Single- speed	N/O + N/O 2.2 kW		<b>XES D1191</b> 0.140
	2-speed	N/O + N/O + 1 C/O staggered auxiliary contact (1)		<b>XES D1291</b> 0.190
<b>Double block 3-pole</b> 2 spring return operators mechanically interlocked (operator centres: 40 mm)	Single- speed	N/O + N/O + N/O 3 kW		<b>XES D2201</b> 0.200
		N/O + N/O + N/O + 1 N/O simultaneous auxiliary contact (1)		<b>XES D2241</b> 0.210
		N/O + N/O + N/O + 1 N/O staggered auxiliary contact (1)		<b>XEN D2251</b> 0.210

## 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.

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

(1) Auxiliary contacts are slow break.

(2) Mounting with operating heads ZA2 B●●●, except ZA2 BD● and ZA2 BG● (see page 30076/15).

(3) Mounting with operating head ZA2 BS14 (see page 30076/15).

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Separate components and spare parts

DF56596

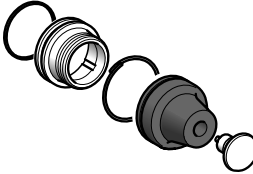


XAC B911●

## Booted operators

For use with contact block	Travel	Operating temperature	Colour of insert	Sold in lots of	Unit reference	Weight kg	
XEN B●●●●	4 mm	- 25...+ 70 °C (1)	White	10	XAC B9111	0.005	
XEN C●●●●			Black	10	XAC B9112	0.005	
XEN D●●●●			Green	10	XAC B9113	0.005	
XES B2011			Red	10	XAC B9114	0.005	
XES D2201			Yellow	10	XAC B9115	0.005	
XES D2241			Blue	10	XAC B9116	0.005	
XES D2251		Brown	10	XAC B9119	0.005		
		- 40...+ 70 °C (2)	White	10	XAC B9121	0.005	
			Black	10	XAC B9122	0.005	
			Green	10	XAC B9123	0.005	
			Red	10	XAC B9124	0.005	
			Yellow	10	XAC B9125	0.005	
			Blue	10	XAC B9126	0.005	
	Brown		10	XAC B9129	0.005		
XES D1181	16 mm		- 25...+ 70 °C (1)	White	10	XAC B9211	0.005
XES D1191				Black	10	XAC B9212	0.005
XES D1281				Green	10	XAC B9213	0.005
XES D1291				Red	10	XAC B9214	0.005
				Yellow	10	XAC B9215	0.005
		Blue		10	XAC B9216	0.005	
		Brown		10	XAC B9219	0.005	
		- 40...+ 70 °C (2)		White	10	XAC B9221	0.005
				Black	10	XAC B9222	0.005
			Green	10	XAC B9223	0.005	
			Red	10	XAC B9224	0.005	
			Yellow	10	XAC B9225	0.005	
			Blue	10	XAC B9226	0.005	
			Brown	10	XAC B9229	0.005	

DF56597



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

DF56598



ZA2 BP●

(1) Polychloroprene boots.

(2) Silicone boots.

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Separate components and spare parts

		Operating heads for front or base mounting (1)				
		Description	Colour	Type	Reference	Weight kg
530385  ZA2 BS54		Mushroom head, latching Turn to release (Emergency stop function)	Red	Ø 30 mm	ZA2 BS44	0.028
				Ø 40 mm	ZA2 BS54	0.033
530384  ZA2 BS14		Mushroom head, latching Key release (n° 455) Key withdrawal in rest (unactuated) position (Emergency stop function)	Red	Ø 30 mm	ZA2 BS74	0.060
				Ø 40 mm	ZA2 BS14	0.065
530382  ZA2 BD●		Selector switches, standard handle	Black	2 position, stay put	ZA2 BD2	0.018
				3 position, stay put (2)	ZA2 BD3	0.018
				Key switches (key n° 455) Key withdrawal in left and right-hand positions	2 position, stay put	ZA2 BG4
530383  ZA2 BG●		Key switches (key n° 455) Key withdrawal in left and right-hand positions	–	3 position, stay put (1)	ZA2 BG5	0.042
				Wobblesticks Operates in all directions for fast stop	Black	–
530381  ZA2 BB●		Wobblesticks Operates in all directions for fast stop	Red	–	ZA2 BB4	0.060
			<b>Operating head for isolating block</b>			
		Description	Colour	Type	Reference	Weight kg
		Mushroom head, latching Key release (n° 455) Key withdrawal in rest (unactuated) position (Emergency stop function)	Red	Ø 40 mm	ZA2 BS14	0.065
<b>Pilot light heads</b>						
		Description	Colour	Reference	Weight kg	
		<b>For use with incandescent bulbs</b>				
		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	
			<b>For use with neon bulbs</b>			
		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 pendant control stations XAC B and M can only be guaranteed by using the operating heads ZA2 B● listed above.

(2) Only suitable for front mounting.

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

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components: pushbuttons with analogue output (1)

## Environment

Conformity to standards			IEC 947-5-1, EN 60947-5-1
Ambient air temperature	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 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 (in millions of operating cycles)			1
Connection		mm <sup>2</sup>	Terminal connectors, maximum clamping capacity: 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>

## Contact block characteristics

Thermal current (I <sub>the</sub> )	A	6
Rated insulation voltage (U <sub>i</sub> )	V	250, degree of pollution 3, conforming to IEC 947-1
Rated operational characteristics conforming to 947-5-1 Appendix C Utilisation categories AC-15 and DC-13 mm Inductive circuit	<b>a.c. supply</b> ~ 50/60 Hz Power broken in VA for 1 million operating cycles	
	<b>Voltage V</b>	<b>48      110      230</b>
	mm VA	30      30      30
	<b>d.c. supply</b> --- Power broken in W for 1 million operating cycles	
	<b>Voltage V</b>	<b>48      110</b>
	mm W	48      12

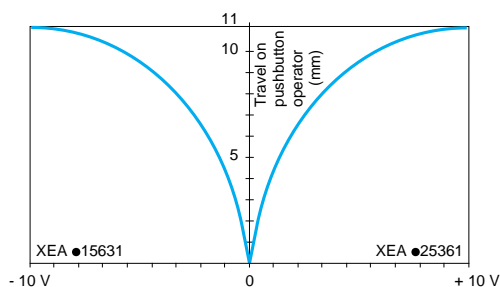
## Analogue circuit characteristics

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

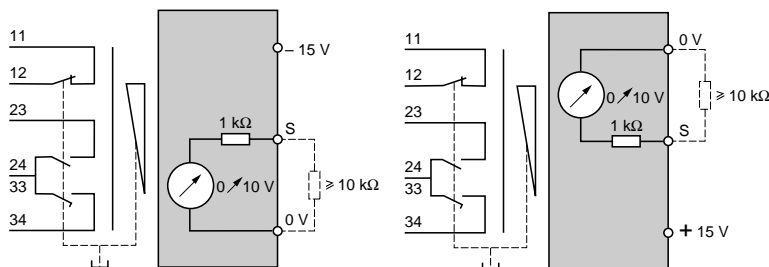
with 15 V supply voltage



### Equivalent output schemes

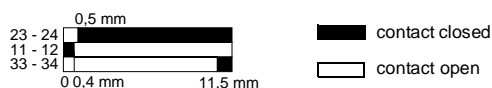
XEA 15631

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.

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

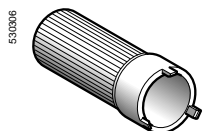
Separate components: pushbuttons with analogue output (1)



XEA C5361



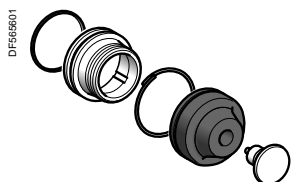
XEA B5361



ZA2 BZ905



XAC X1



XAC B9112

## References

### Complete pushbuttons (body + operating head), non booted (2)

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 + operating head), booted (2)

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

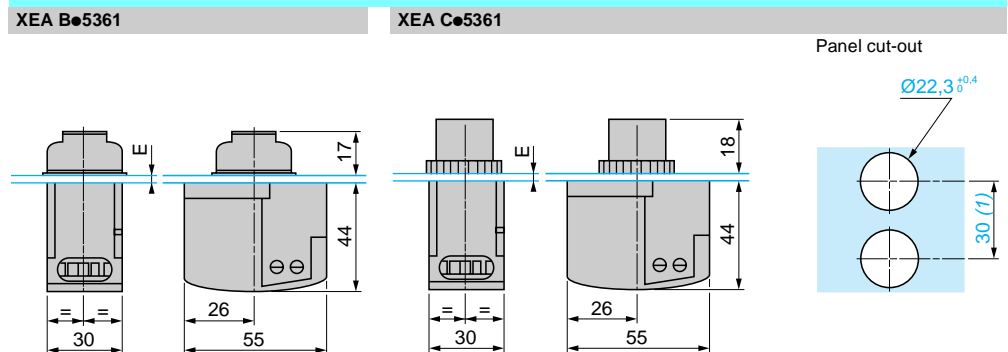
Description	For use with	Reference	Weight kg
Tightening key for fixing nut	XEA C5361	ZA2 BZ905	0.060
	XEA B5361	XAC X1	0.010

## Separate components 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 providing an analogue output signal proportional to the distance travelled by the pushbutton operator.  
(2) Pushbutton supplied with 1 white insert and 1 black insert.

## Dimensions



E = support panel thickness, 1 to 3.5 mm.  
(1) Minimum fixing centres between 2 operators.

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Separate components and spare parts

## Bulbs

Description	Voltage	Sold in lots of	Unit reference	Weight kg
<b>Incandescent</b> BA 9s base fitting Maximum power: 2.6 W Maximum Ø: 11 mm Maximum length: 28 mm	6 V	10	DL1 CB006	0.002
	12 V	10	DL1 CE012	0.002
	24 V	10	DL1 CE024	0.002
	48 V	10	DL1 CE048	0.002
	130 V	10	DL1 CE130	0.002
<b>Neon</b> BA 9s base fitting Maximum power: 2.6 W Maximum Ø: 11 mm Maximum length: 28 mm	120 V	10	DL1 CF110	0.002
	230 V	10	DL1 CF220	0.002
	400 V	10	DL1 CF380	0.002

## Accessories for booted operators

Description	Travel	Material/ Colour	Operating temperature	Sold in lots of	Unit reference	Weight kg
<b>Boots with circlip, without coloured insert</b>	4 mm	Polychloroprene	- 25...+ 70° C	10	XAC B911	0.002
		Silicone	- 40...+ 70° C	10	XAC B912	0.002
	16 mm	Polychloroprene	- 25...+ 70° C	10	XAC B921	0.002
		Silicone	- 40...+ 70° C	10	XAC B922	0.002
<b>Coloured inserts for booted operators (4 and 16 mm travel)</b>		White	–	10	XAC B901	0.001
		Black	–	10	XAC B902	0.001
		Green	–	10	XAC B903	0.001
		Red	–	10	XAC B904	0.001
		Yellow	–	10	XAC B905	0.001
		Blue	–	10	XAC B906	0.001
		Brown	–	10	XAC B909	0.001

530307



DL1 C●●●●

530308



DL1 CF●●●

530311



XAC B91●

530310



XAC B92●

530309



XAC B90●

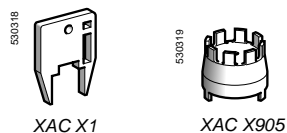
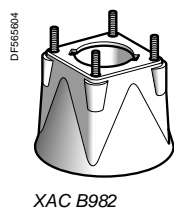
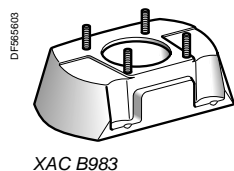
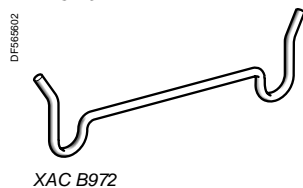
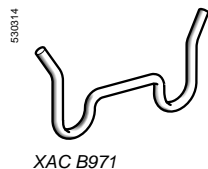
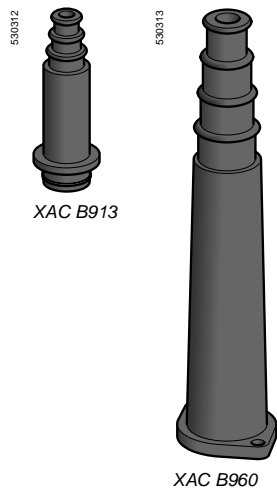
# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Separate components and spare parts



## Complementary accessories

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

## Tools

Description	For use with	Reference	Weight kg
<b>Tightening key</b>	Bezels	<b>XAC X1</b>	0.010
	Units mounted in base of enclosure	<b>XAC X905</b>	0.015
<b>Bulb extractor</b>	BA 9s base fitting bulbs	<b>XBF X13</b>	0.003

# Pendant control stations

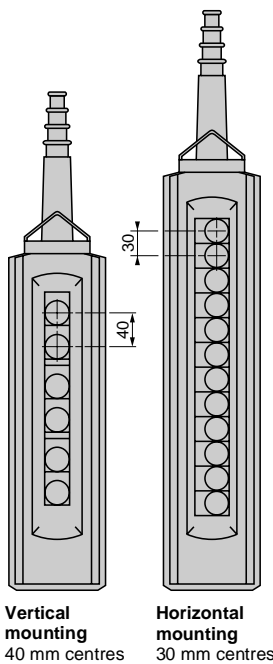
Double insulated, type XAC B

Metal, type XAC M

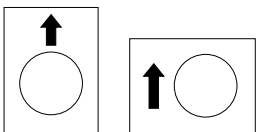
For control or power circuits

Legends 30 x 40 mm (with symbols conforming to NF E 52-124)

DF565866



DF565865



White background, black symbol



Black background, white symbol



Red background, white symbol

Symbol Reference	Symbol	Reference	Weight	Symbol Reference	Symbol	Reference	Weight
Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres	kg	Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres	kg
<b>Raise, slow</b>							
	ZB2 BY4951		ZB2 BY4901		ZB2 BY2954		ZB2 BY2904
<b>Raise, fast</b>							
	ZB2 BY4952		ZB2 BY4902		ZB2 BY2955		ZB2 BY2905
<b>Raise, slow-fast</b>							
	ZB2 BY4953		ZB2 BY4903		ZB2 BY2956		ZB2 BY2906
<b>Right, slow</b>							
	ZB2 BY4901		ZB2 BY4907		ZB2 BY2904		ZB2 BY2910
<b>Right, fast</b>							
	ZB2 BY4902		ZB2 BY4908		ZB2 BY2905		ZB2 BY2911
<b>Right, slow-fast</b>							
	ZB2 BY4903		ZB2 BY4909		ZB2 BY2906		ZB2 BY2912
<b>Forward, slow</b>							
	ZB2 BY4963		ZB2 BY4913		ZB2 BY2966		ZB2 BY2916
<b>Forward, fast</b>							
	ZB2 BY4964		ZB2 BY4914		ZB2 BY2967		ZB2 BY2917
<b>Forward, slow-fast</b>							
	ZB2 BY4965		ZB2 BY4915		ZB2 BY2968		ZB2 BY2918
<b>Slew right, slow</b>							
	ZB2 BY4919		ZB2 BY4919		ZB2 BY2922		ZB2 BY2922
<b>Slew right, fast</b>							
	ZB2 BY4920		ZB2 BY4920		ZB2 BY2923		ZB2 BY2923
<b>Slew right, slow-fast</b>							
	ZB2 BY4921		ZB2 BY4921		ZB2 BY2924		ZB2 BY2924
<b>Slow</b>							
	ZB2 BY4933		ZB2 BY4933		ZB2 BY4934		ZB2 BY4934
<b>Klaxon</b>							
	ZB2 BY4982		ZB2 BY4932		ZB2 BY4985		ZB2 BY4935
<b>Start</b>							
	ZB2 BY4980		ZB2 BY4930		ZB2 BY2931		ZB2 BY2931
<b>Stop</b>							
	ZB2 BY2931		ZB2 BY2931		ZB2 BY2931		ZB2 BY2931

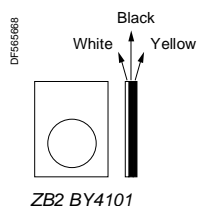
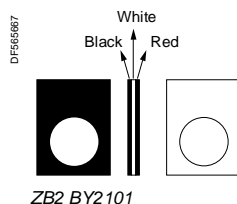
# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Legends 30 x 40 mm



Text	Reference	Weight kg	Text	Reference	Weight kg
<ul style="list-style-type: none"> <li>■ Start functions: white characters on black background</li> <li>■ Stop functions: white characters on red background</li> </ul>					
<b>Blank</b>					
Black or red background	ZB2 BY2101	0.001	White or yellow background	ZB2 BY4101	0.001
<b>With French text</b>			<b>With English text</b>		
<b>For pushbuttons</b>			<b>For pushbuttons</b>		
Marche	ZB2 BY2103	0.001	Start	ZB2 BY2303	0.001
Arrêt	ZB2 BY2104	0.001	Stop	ZB2 BY2304	0.001
Avant	ZB2 BY2105	0.001	Forward	ZB2 BY2305	0.001
Arrière	ZB2 BY2106	0.001	Reverse	ZB2 BY2306	0.001
Montée	ZB2 BY2107	0.001	Up	ZB2 BY2307	0.001
Descente	ZB2 BY2108	0.001	Down	ZB2 BY2308	0.001
Droite	ZB2 BY2109	0.001	Right	ZB2 BY2309	0.001
Gauche	ZB2 BY2110	0.001	Left	ZB2 BY2310	0.001
En service	ZB2 BY2111	0.001	On	ZB2 BY2311	0.001
Hors service	ZB2 BY2112	0.001	Off	ZB2 BY2312	0.001
Sous tension	ZB2 BY2126	0.001	Power on	ZB2 BY2326	0.001
Lent	ZB2 BY2127	0.001	Slow	ZB2 BY2327	0.001
Vite	ZB2 BY2128	0.001	Fast	ZB2 BY2328	0.001
Klaxon	ZB2 BY2125	0.001	–	–	–
<b>For selector switches</b>			<b>For selector switches</b>		
Arrêt-Marche	ZB2 BY2166	0.001	–	–	–
Hors-En	ZB2 BY2167	0.001	Off-On	ZB2 BY2367	0.001
<b>With special texts</b>					
<ul style="list-style-type: none"> <li>■ Specify text when ordering,</li> <li>■ 2 lines maximum, 11 characters per line.</li> </ul>					
White characters on black background	ZB2 BY2002	0.001	Black characters on white background	ZB2 BY4001	0.001
White characters on red background	ZB2 BY2004	0.001	Black characters on yellow background	ZB2 BY4005	0.001
<b>Other versions</b>	Legends with texts in other languages. Please consult your Regional Sales Office.				

# Pendant control stations

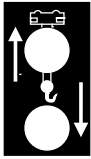
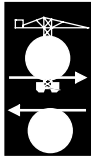

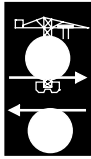
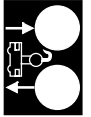
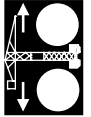
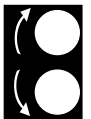
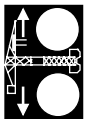
Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Twin legends for tower cranes

## Legends with white symbols on black background

Function	Symbol	Reference	Weight kg	Function	Symbol	Reference	Weight kg
<b>40 mm operator centres</b> (for enclosures with 2 to 8 operators and 12 operators in 2 rows)							
<b>Hoist</b> Raise Lower		<b>XAC Y4970</b>	0.002	<b>Long travel</b> Forward Reverse		<b>XAC Y4972</b>	0.002
<b>Slew</b> Right Left		<b>XAC Y4971</b>	0.002	<b>Trolley</b> Forward Reverse		<b>XAC Y4973</b>	0.002
<b>30 mm operator centres</b> (for enclosures with 12 operators in 1 row)							
<b>Hoist</b> Raise Lower		<b>XAC Y3970</b>	0.002	<b>Long travel</b> Forward Reverse		<b>XAC Y3972</b>	0.002
<b>Slew</b> Right Left		<b>XAC Y3971</b>	0.002	<b>Trolley</b> Forward Reverse		<b>XAC Y3973</b>	0.002

# Pendant control stations

Double insulated, type XAC B

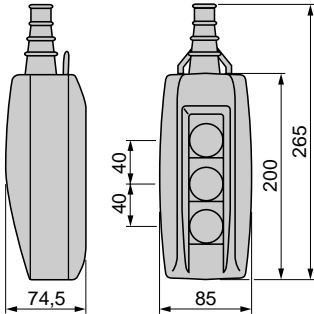
Metal, type XAC M

For control or power circuits

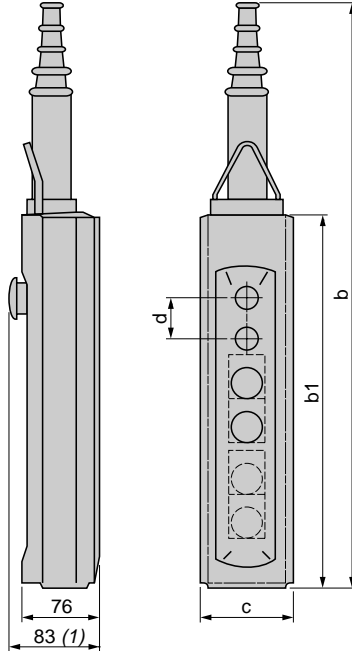
(XAC M: products for maintenance purposes only)

## Pendant control stations

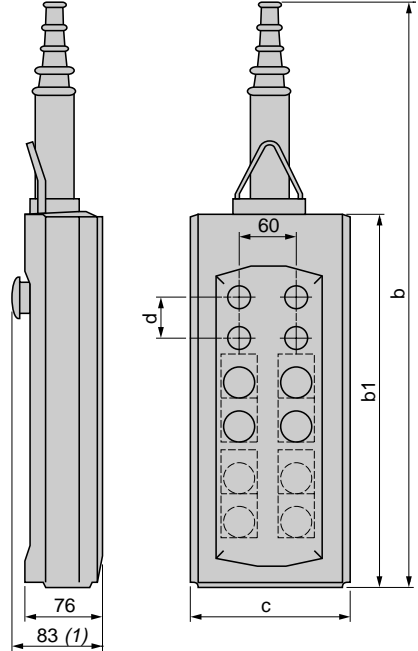
XAC B●●● (2 and 3-way)



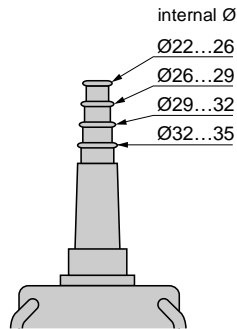
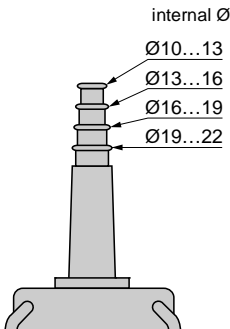
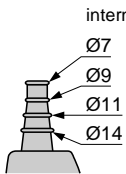
XAC B●●● (2 to 12-way, 1 row)  
XAC M●●● (4 to 8-way, 1 row)



XAC B●●● (12-way, 2 rows)



### Protective cable sleeves

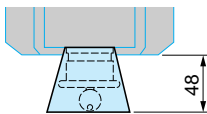


(1) With mushroom head operator.

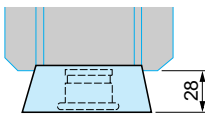
Number of operators	2	4	6	8	12 (1 row)	12 (2 rows)
b	409	499	589	679	679	593
b1	220	310	400	490	490	404
c	98	98	98	98	98	158
d	40	40	40	40	30	40

## Protective guards

XAC B982

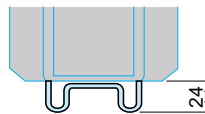


XAC B983



## Lower support rings

XAC B971, B972



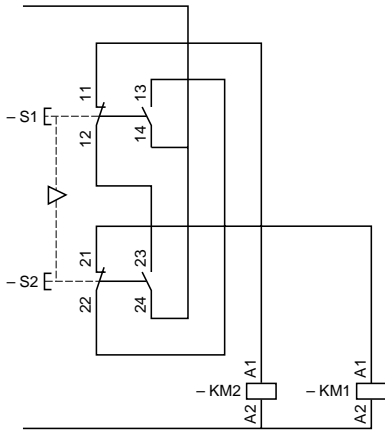
# Pendant control stations

Double insulated, type XAC B  
Metal, type XAC M  
For control or power circuits

## Control circuits

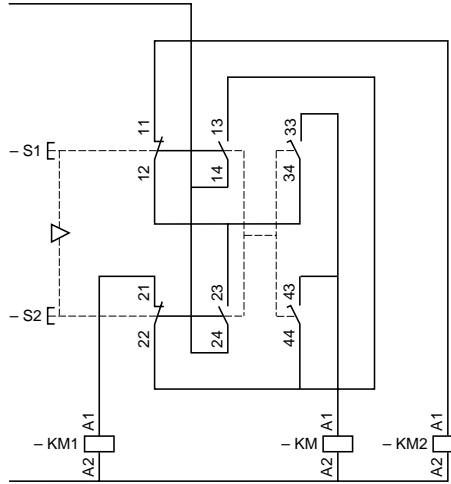
### For control of single-speed reversing motor

Contact block XES D1181



### For control of 2-speed reversing motor

Contact block XES D1281



KM: high speed contactor

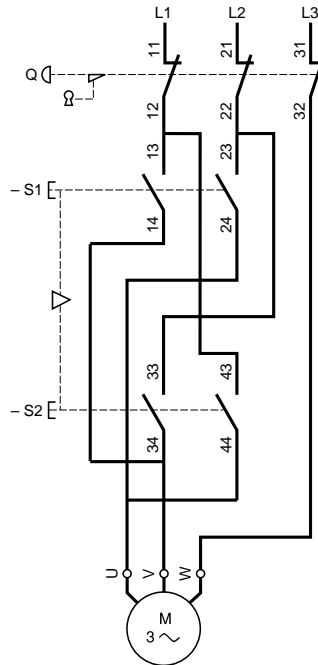
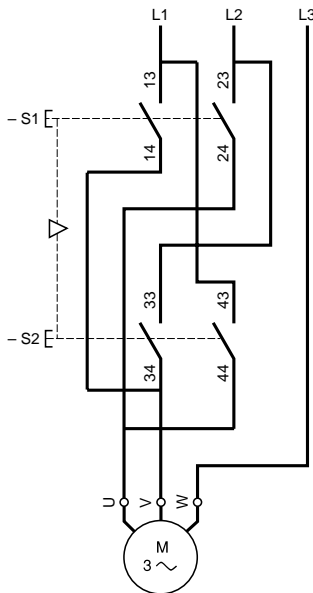
## Power circuits

### For control of single-speed reversing motor. 2-phase switching

Contact block XES D1191

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 mushroom head operator (ZA2 BS14).



## Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

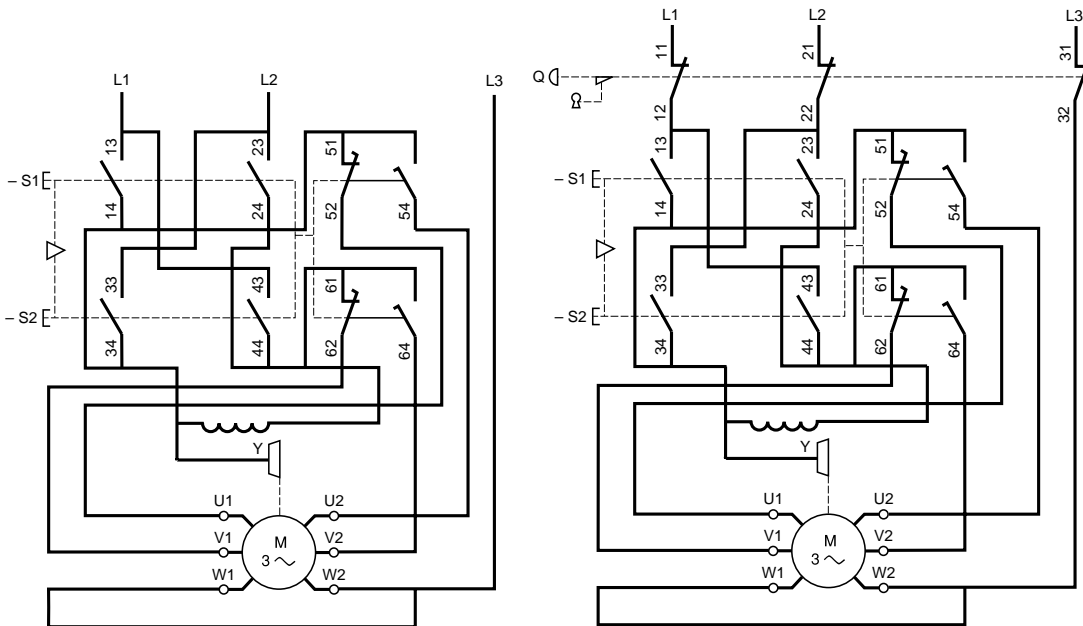
### Power circuits (continued)

#### For control of 2-speed reversing motor (motors with separate windings only). 2-phase switching

Contact block XES D1291

Application example:

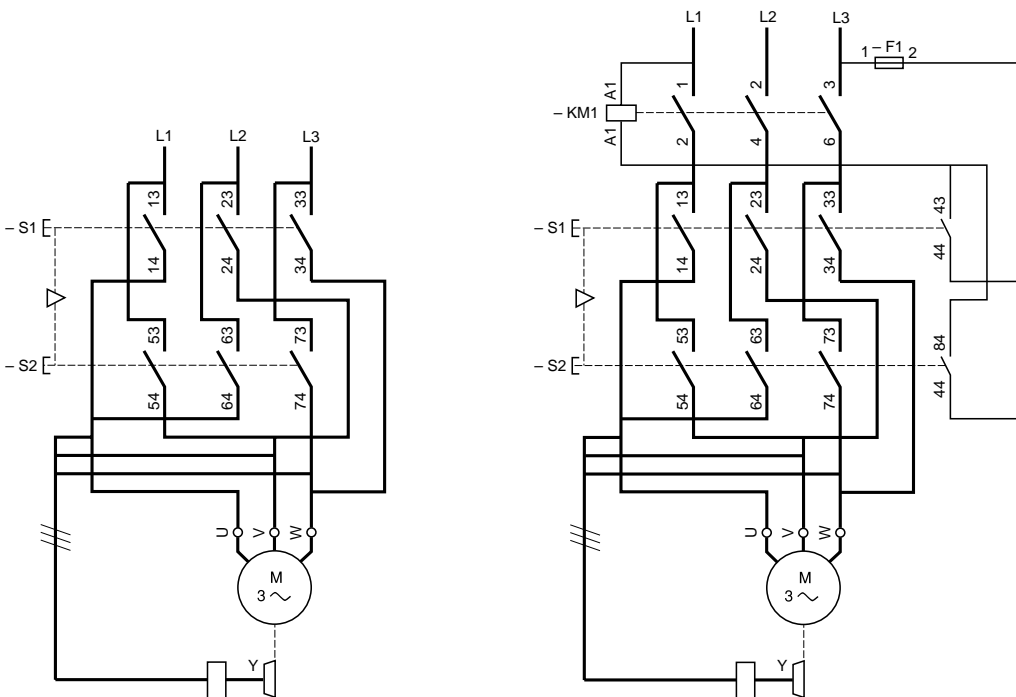
Combined with 3-pole isolating block XAC S399 or XAC S3991, shown in the unoperated position (pendant station "supplied"), fitted with key release mushroom head operator (ZA2 BS14).



#### For control of single-speed reversing motor. 3-phase switching, reversing by 2-phase inversion

Contact block XES D2201

Contact block XES D2241 with line contactor





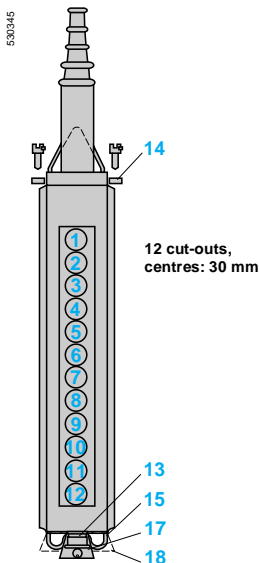
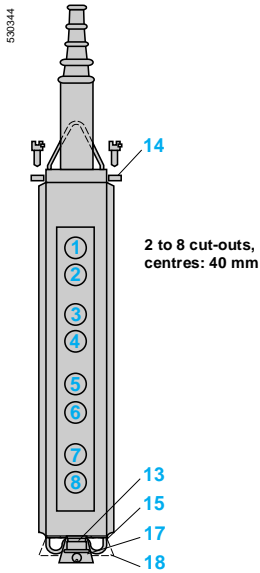
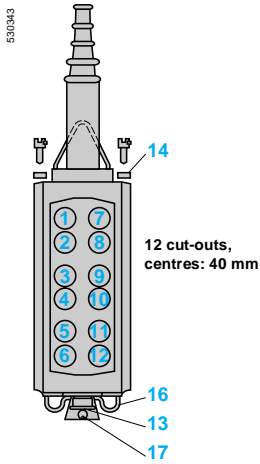
# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M (XAC M: products for maintenance purposes only)

For control or power circuits

Variable composition stations, factory assembled



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

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

Unit reference of empty enclosure, see pages 30076/7 to 30076/9	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"/>		

Legends see pages 30076/20 to 30076/22		Contact blocks or pilot light bodies see pages 30076/10 to 30076/13		Operating heads or pilot light heads or blanking plug see pages 30076/14 and 30076/19		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						

<b>Factory assembled:</b>	Number of heads or blanking plugs to be fitted	X	Additional cost XAC 9VA for fitting of 1 head or 1 blanking plug	
	<input type="text"/>		<input type="text"/>	<input type="text"/>

<b>Complementary accessories</b> , see page 30076/19 (cross the appropriate box or boxes)			
Description	<input checked="" type="checkbox"/>	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	
15 Lower support ring for 2 row enclosures		XAC B972	
16 Protective guard for key release latching mushroom head pushbutton, mounted in base		XAC B982	
17 Protective guard for mushroom head pushbutton, mounted in base		XAC B983	

<b>Total price of assembled pendant station</b>	<input type="text"/>
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(1) Obtain the empty enclosure price.