

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Environment		
Conformity to standards		EN/IEC 60947-5-1, CSA C22-2 n° 14
Product certifications	XAC B	Standard version: 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 60068-2-6
Shock resistance		100 gn conforming to IEC 60068-2-27
Electric shock protection	XAC B	Class II
	XAC M	Class I conforming to IEC 61140
Degree of protection		IP 65 conforming to IEC 60529; IK 08 conforming to IEC 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 EN/IEC 60947-5-1 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 EN/IEC 60947-1
	XEN B●●●●, XEN D1●●●, XEN D2●●●	V 400, degree of pollution 3, conforming to EN/IEC 60947-1
Rated impulse withstand voltage (U imp)	kV	6, conforming to EN/IEC 60947-1
Positive operation		Mushroom head pushbutton: N/C contact with positive opening operation conforming to EN/IEC 60947-5-1 Appendix K
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 D1281: 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 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

**Operational power**  
conforming to EN/IEC 60947-5-1 Appendix C  
Utilisation categories AC-15 and DC-13  
For 1 million operating cycles  
Operating rate: 3600 operating cycles/hour  
Load factor: 0.5  
mm Inductive circuit

Contact blocks XEN C●●●●, XEN D3●●●, XEN D4●●●, XAC S4●●●										
a.c. supply ~ 50/60 Hz					d.c. supply ---					
mm	V	24	48	127	230	mm	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 ---					
mm	V	24	48	127	230	mm	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 ---					
mm	V	24	48	127	230	mm	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
	4 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B481</b>	1.100
	6 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B681</b>	1.300
	8 without mechanical interlocking	1 C/O snap action XES B2011 	<b>XAC B881</b>	1.550
o				

# Pendant control stations

## Double insulated, type XAC B

### For power circuits (direct switching)

Environment			
<b>Conformity to standards</b>			EN/IEC 60947-5-1 EN/IEC 60204-32, UL 508, CSA C22-2 n° 14 EN/IEC 60947-5-5 and EN/ISO 13850: 2006 for versions with trigger action Emergency stop EN/IEC 60947-3
<b>Product certifications</b>	Standard version		CSA type 4
<b>Protective treatment</b>	Standard version		"TH"
<b>Ambient air temperature</b>	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 70
<b>Vibration resistance</b>			15 gn (10...500 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>			100 gn conforming to IEC 60068-2-27
<b>Electric shock protection</b>			Class II conforming to IEC 61140
<b>Degree of protection</b>			IP 65 conforming to IEC 60529
<b>Mechanical durability</b> (in millions of operating cycles)			1 except for XAC B91● and XAC CB92●: 0.4
<b>Enclosure</b>			Double insulated glass-reinforced polyester (colour: yellow)
<b>Cable entry</b>			Rubber sleeve with stepped entry diameter for cable Ø 10...Ø 22 mm
Contact block characteristics			
<b>Thermal current (Ithe)</b>	XES D1191, XES D1291	A	12
	XES D2201, XES D2241, XES D2251	A	20
<b>Rated insulation voltage (Ui)</b>	XES D●●●●	V	500, degree of pollution 3, conforming to IEC 60947-1
	XAC S●99	V	400, degree of pollution 3, conforming to IEC 60947-1
	XES D1●●●	V	600, conforming to CSA
	XES D2●●●	V	300, conforming to CSA
<b>Rated impulse withstand voltage (U imp)</b>		kV	6, conforming to IEC 60947-1
<b>Contact operation</b>			Snap action
<b>Operating force</b>	XES D1●●●	N	17
	XES D2●●●	N	32
<b>Terminal referencing</b>			By numbers conforming to CENELEC EN 50005
<b>Short-circuit protection</b>	XES D1●●●		10 A maximum cartridge fuse type aM
	XES D2●●●		12 A maximum cartridge fuse type aM
<b>Connection</b>		mm <sup>2</sup>	Captive screw clamp terminals Clamping capacity: 1 x 2.5 or 2 x 1.5 with or without cable end
<b>Operational power</b>	3 phases, 2 poles XES D1●●●		Utilisation categories AC-3 and AC-4 conforming to EN/IEC 60947-3 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
<b>Mechanical durability</b> (in millions of operating cycles) Utilisation categories AC-3 and AC-4 conforming to EN/IEC 60947-3 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

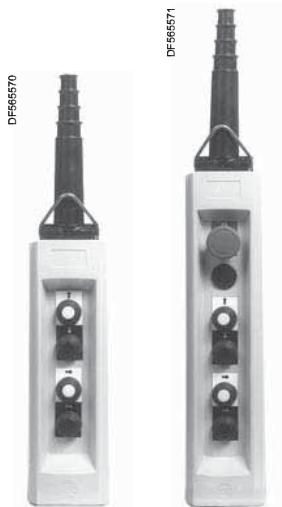
# Pendant control stations

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



XAC B219  
XAC B220

XAC B3195  
XAC B3205



XAC B491  
XAC B493

XAC B4916  
XAC B4936



XAC B4915  
XAC B4935

## 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 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844	2-pole XES D1191(1)	1 N/C + N/C + N/C XAC S499	2.2 kW	<b>XAC B3195 ▲</b>	0.940
		3-pole XES D2201(1)	1 N/C + N/C + N/C XAC S499	3 kW	<b>XAC B3205 ▲</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 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844	2-pole XES D1191(1)	1 N/C + N/C + N/C XAC S499	2.2 kW	<b>XAC B4916 ▲</b>	1.260
		3-pole XES D2201(1)	1 N/C + N/C + N/C XAC S499	3 kW	<b>XAC B4936 ▲</b>	1.390
	4 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844 mounted in base	2-pole XES D1191(1)	1 N/C + N/C + N/C XAC S3991	2.2 kW	<b>XAC B4915 ▲</b>	1.350
		3-pole XES D2201(1)	1 N/C + N/C + N/C XAC S3991	3 kW	<b>XAC B4935 ▲</b>	1.480

(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, Machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

▲ Available 3<sup>rd</sup> quarter of 2008

# Pendant control stations

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

DF66573



XAC B691  
XAC B693

DF66574



XAC B6916  
XAC B6936

DF66575



XAC B6915  
XAC B6935

DF66576



XAC B229

DF66577



XAC B3295

### 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 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844		2-pole XES D1191(1)	1 N/C + N/C + N/C XAC S499	2.2 kW	<b>XAC B6916 ▲</b>	1.410
		3-pole XES D2201(1)	1 N/C + N/C + N/C XAC S499	3 kW	<b>XAC B6936 ▲</b>	1.610
6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844 mounted in base		2-pole XES D1191(1)	1 N/C + N/C + N/C XAC S3991	2.2 kW	<b>XAC B6915 ▲</b>	1.500
		3-pole XES D2201(1)	1 N/C + N/C + N/C XAC S3991	3 kW	<b>XAC B6935 ▲</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 trigger action latching Emergency stop Ø 40 mm operator ZA2 BS844		2-pole XES D1291(1)	1 N/C + N/C + N/C XAC S499	2.2 kW	<b>XAC B3295 ▲</b>	0.990

(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, Machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

▲ Available 3<sup>rd</sup> quarter of 2008

# Pendant control stations

Double insulated, type XAC B

For control or power circuits

Empty enclosures

DF665578



XAC B020

DF665579



XAC B030

DF665580



XAC B02●

DF665581



XAC B04●

DF665582



XAC B06●

DF665583



XAC B08●

DF665584



XAC B12●

## 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
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
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
		4	Without	<b>XAC B04</b>	1.000
			With	<b>XAC B041</b>	1.000
		6	Without	<b>XAC B06</b>	1.160
			With	<b>XAC B061</b>	1.160
		8	Without	<b>XAC B08</b>	1.330
			With	<b>XAC B081</b>	1.330
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

DF96590



XAC B02●●

DF96591



XAC B04●●

DF96592



XAC B06●●

DF96593



XAC B08●●

DF96594



XAC B12●●

## 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
Empty enclosures (1) Double insulated for "General purpose" applications 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
			With	<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)

DF66586



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
<b>Empty enclosures (1) Double insulated for “General purpose” applications</b> Operator cut-out centres: 30 mm	For cable Ø 10...22 mm	12 in 1 row	Without	<b>XAC B120</b>	1.330
			With	<b>XAC B1201</b>	1.330
	For cable Ø 22...35 mm	12 in 1 row	Without	<b>XAC B1205</b>	1.530
			With	<b>XAC B12015</b>	1.530
<b>Empty enclosures (1) Metal for “General purpose” applications</b> Operator cut-out centres: 40 mm	For cable Ø 10...22 mm	4	Without	<b>XAC M04</b>	1.540
			With	<b>XAC M041</b>	1.540
	8	Without	<b>XAC M08</b>	2.210	
			With	<b>XAC M081</b>	2.210
	For cable Ø 22...35 mm	4	Without	<b>XAC M045</b>	1.740
			With	<b>XAC M0415</b>	1.740
	8	Without	<b>XAC M085</b>	2.410	
			With	<b>XAC M0815</b>	2.410

DF66587



XAC M08

DF66588



XAC M04

## Variable composition stations, factory assembled

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

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

See separate components, pages 30076-EN/10 to 30076-EN/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

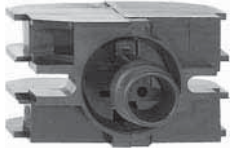
Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components and spare parts

DF566588



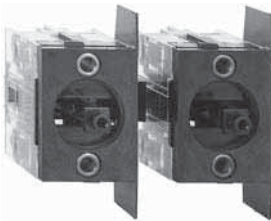
XEN C1111

DF566589



XEN B1181

DF566590



XEN D2611

## Contact blocks for front mounting, slow break

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

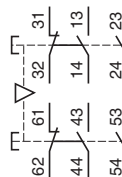
Separate components and spare parts

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

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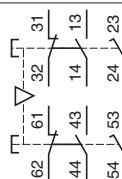
### Spring return (continued)

**Double block** Single-speed C/O + N/O  
2 spring return operators mechanically interlocked



30	<b>XEN D1631</b>	0.110
40 (1)	<b>XEN D2631</b>	0.110

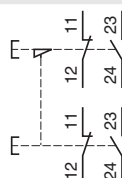
2-speed 2 step C/O + N/O staggered



30	<b>XEN D1641</b>	0.110
40 (1)	<b>XEN D2641</b>	0.110

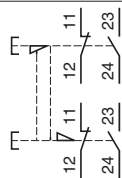
### Latching

**Double block** Single-speed N/C + N/O  
1 latching operator released by 1 spring return operator



30	<b>XEN D3801</b>	0.170
40 (1)	<b>XEN D4801</b>	0.170

**Double block** Single-speed N/C + N/O  
2 latching operators



30	<b>XEN D3811</b>	0.170
40 (1)	<b>XEN D4811</b>	0.170

## Contact blocks for front mounting, snap action

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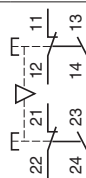
### Spring return

**Single block** Single-speed C/O  
1 spring return operator (2)



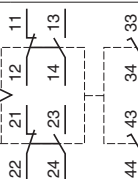
40 (1)	<b>XES B2011</b>	0.030
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**Double block** Single-speed C/O  
2 spring return operators mechanically interlocked



40 (1)	<b>XES D1181</b>	0.140
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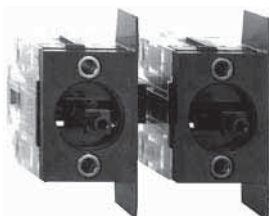
2-speed C/O + N/O staggered



40 (1)	<b>XES D1281</b>	0.190
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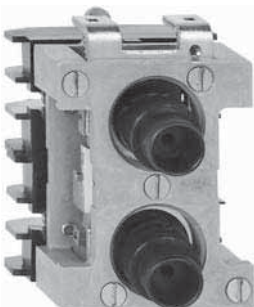
(1) These contact blocks cannot be mounted in enclosures XAC B120 (12 operators in 1 row).  
(2) Only for mounting with operators XAC B91.

DF566593



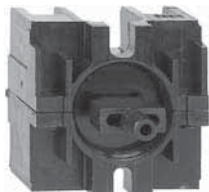
XEN D2641

DF566592



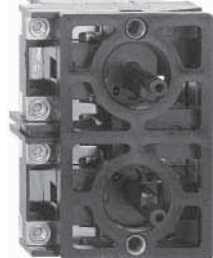
XEN D3801

DF566591



XES B2011

DF566594



XES D1181

# Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

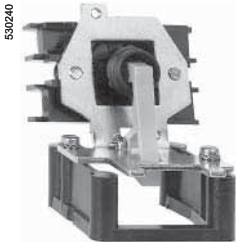
Separate components and spare parts



XAC S41●

### Contact blocks for front mounting (1)

Description	Function	Scheme	Reference	Weight kg
<b>Spring return Slow break</b> 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 S411

### Contact blocks for base mounting (1)

Description	Function	Scheme	Reference	Weight kg
<b>Spring return Slow break</b>	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
<b>Direct supply</b> Bulb not included (2)	≤ 400 V		XAC V06	0.050
<b>Direct supply, through resistor</b> 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-EN/15).

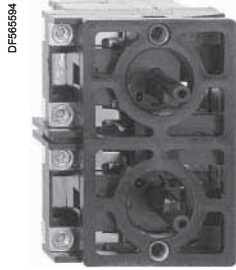
(2) Bulb type for use with direct supply units: BA 9s base fitting incandescent bulb  $U \leq 130$  V or neon bulb  $110$  V  $\leq U \leq 400$  V. Maximum power: 2.6 W, maximum  $\varnothing$ : 11 mm, maximum length: 26 mm. See page 30076-EN/18.

# Pendant control stations

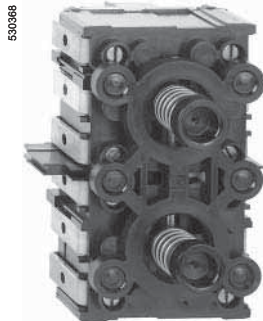
Double insulated, type XAC B

For power circuits (direct switching)

Separate components and spare parts



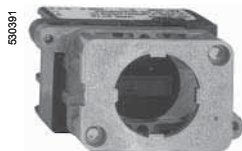
XES D1191



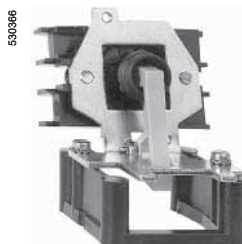
XES D2201



XAC S399



XAC S499



XAC S3991

## Contact blocks, snap action

Description	Application Function	Max. power/ Scheme	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	XES D1191	0.140
	2-speed N/O + N/O + 1 C/O staggered auxiliary contact (1)	2.2 kW	XES D1291	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	XES D2201	0.200
	N/O + N/O + N/O + 1 N/O simultaneous auxiliary contact (1)	3 kW	XES D2241	0.210
	N/O + N/O + N/O + 1 N/O staggered auxiliary contact (1)	3 kW	XEN D2251	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/ 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 operating heads ZA2 B●●●, except ZA2 BD● and ZA2 BG● (see page 30076-EN/15).  
 (3) Mounting with operating head ZA2 BS944 (see page 30076-EN/15).

# Pendant control stations

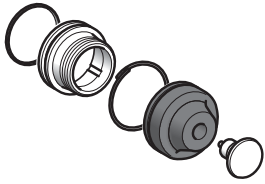
Double insulated, type XAC B

Metal, type XAC M

For control or power circuits

Separate components and spare parts

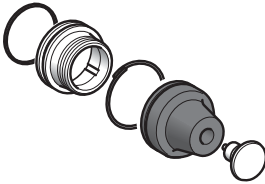
DF565596



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●●●● XEN C●●●● XEN D●●●● XES B2011 XES D2201 XES D2241 XES D2251	4 mm	- 25...+ 70 °C (1)	White	10	XAC B9111	0.005
			Black	10	XAC B9112	0.005
			Green	10	XAC B9113	0.005
			Red	10	XAC B9114	0.005
			Yellow	10	XAC B9115	0.005
			Blue	10	XAC B9116	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
XES D1181 XES D1191 XES D1281 XES D1291	16 mm	- 25...+ 70 °C (1)	White	10	XAC B9211	0.005
			Black	10	XAC B9212	0.005
			Green	10	XAC B9213	0.005
			Red	10	XAC B9214	0.005
			Yellow	10	XAC B9215	0.005
			Blue	10	XAC B9216	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			

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XAC B921●

DF565598



ZA2 BP●

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

(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

DF539492



ZA2 BS844

DF539493



ZA2 BS944

530382



ZA2 BD●

530383



ZA2 BG●

530381



ZA2 BB●

## Operating heads for front or base mounting (1)

Description	Colour	Type	Reference	Weight kg
<b>Trigger action latching Emergency stop (2)</b>	Red	Ø 30 mm	ZA2 BS834	0.028
Turn to release (Emergency stop function)		Ø 40 mm	ZA2 BS844	0.033
<b>Trigger action latching Emergency stop (2) (3)</b>	Red	Ø 30 mm	ZA2 BS934	0.060
Key release (n° 455) Key withdrawal in rest (unactuated) position (Emergency stop function)		Ø 40 mm	ZA2 BS944	0.065
<b>Selector switches, standard handle (4)</b>	Black	2 position, stay put	ZA2 BD2	0.018
		3 position, stay put (5)	ZA2 BD3	0.018
<b>Key switches</b> (key n° 455) (3)	–	2 position, stay put	ZA2 BG4	0.042
Key withdrawal in left and right-hand positions		3 position, stay put (5)	ZA2 BG5	0.042
<b>Key switches</b> (key n° 455) (3)	–	2 position, stay put	ZA2 BG2	0.042
Key withdrawal in left-hand position		2 position	ZA2 BG6	0.042
<b>Key switches</b> (key n° 455) (3)	–	3 position, stay put (5)	ZA2 BG3	0.042
Spring return from right to left Key withdrawal in left-hand position				
<b>Key switches</b> (key n° 455) (4) (3)	–			
Key withdrawal in centre position				
<b>Wobblesticks (6)</b>	Black	–	ZA2 BB2	0.060
Operates in all directions for fast stop	Red	–	ZA2 BB4	0.060

## Operating head for isolating block

Description	Colour	Type	Reference	Weight kg
<b>Mushroom head, latching</b> Key release (n° 455) Key withdrawal in rest (unactuated) position (Emergency stop function)	Red	Ø 40 mm	ZA2 BS14	0.065

## Pilot light heads

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

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ZA2 BV0●

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

(2) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, Machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

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

(4) Selector switches or key switches with other mechanical functions: please consult your Regional Sales Office.

(5) Only suitable for front mounting.

(6) Base mounting recommended.

## Pendant control stations

Double insulated, type XAC B

Metal, type XAC M

For control circuits

Separate components: pushbuttons with analogue output (1)

### Environment

<b>Conformity to standards</b>			EN/IEC 60947-5-1
<b>Ambient air temperature</b>	For storage	°C	- 40...+ 70
	For operation	°C	- 25...+ 70
<b>Degree of protection</b>			IP 65 conforming to IEC 60529
<b>Pushbutton operator travel</b>		mm	11
<b>Operating force</b>		N	4 (start of travel) 9 (end of travel)
<b>Mechanical durability</b> (in millions of operating cycles)			1
<b>Connection</b>		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

<b>Thermal current (I<sub>the</sub>)</b>	A	6
<b>Rated insulation voltage (U<sub>i</sub>)</b>	V	250, degree of pollution 3, conforming to IEC 60947-1
<b>Rated operational characteristics</b> conforming to 947-5-1 Appendix C Utilisation categories AC-15 and DC-13	<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

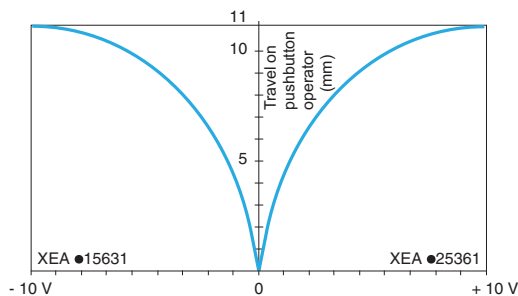
### Analogue circuit characteristics

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

### Analogue signal output curves and schemes

#### Analogue signal output curves

with 15 V supply voltage

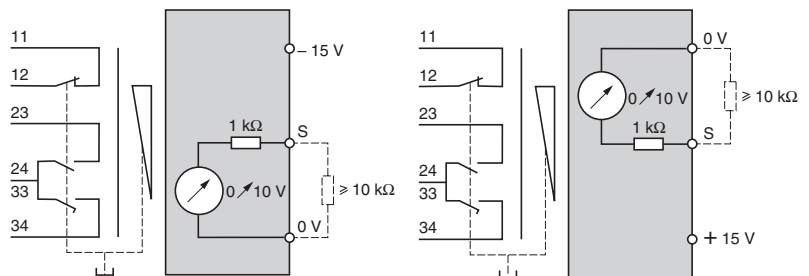


**Note:** supply voltage = 15 V, output voltage = 10 V  
(if supply voltage < 15 V, output voltage < 10 V)

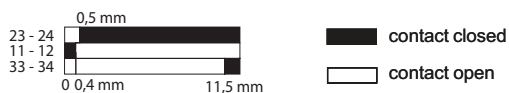
#### Equivalent output schemes

XEA ●15631

XEA ●25361



#### Contact state



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

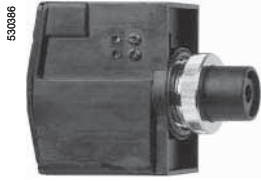
# Pendant control stations

Double insulated, type XAC B

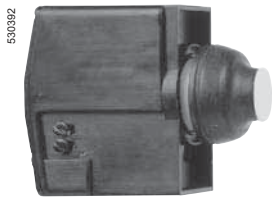
Metal, type XAC M

For control circuits

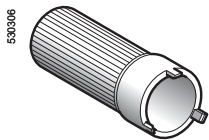
Separate components: pushbuttons with analogue output (1)



XEA C•5361



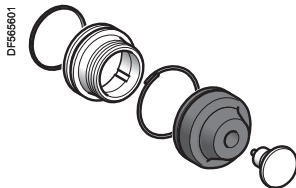
XEA B•5361



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

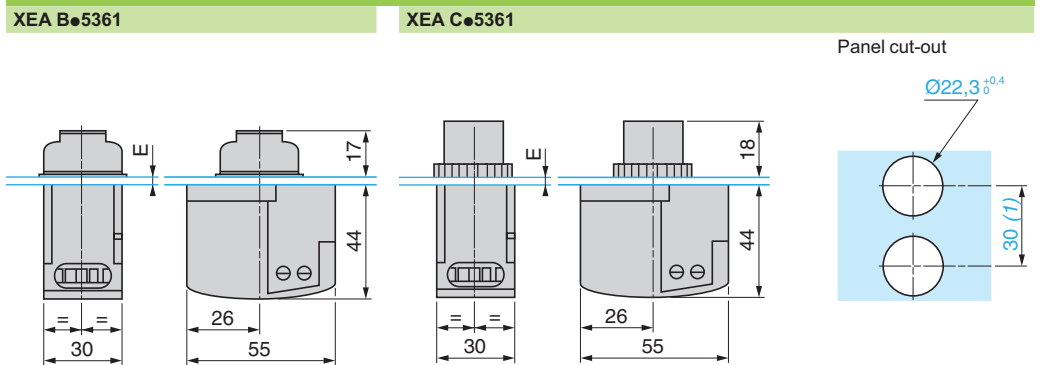
Description	For use with	Reference	Weight kg
Tightening key for fixing nut	XEA C•5361	ZA2 BZ905	0.060
	XEA B•5361	XAC X1	0.010

### 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

530307



DL1 C●●●●

## 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

530308



DL1 CF●●●●

## 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

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XAC B91●

530310



XAC B92●

530309



XAC B90●

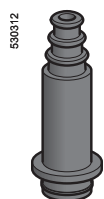
# Pendant control stations

Double insulated, type XAC B

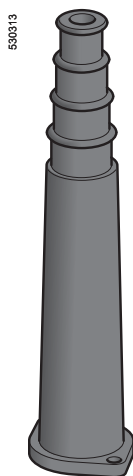
Metal, type XAC M

For control or power circuits

Separate components and spare parts



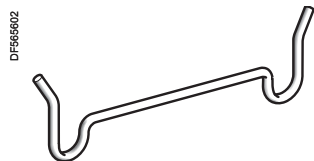
XAC B913



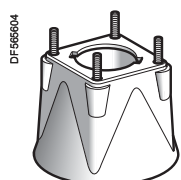
XAC B960



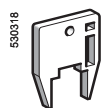
XAC B971



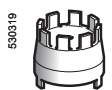
XAC B972



XAC B982



XAC X1



XAC X905

## 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	Emergency stop pushbutton	<b>XAC B982</b>	0.050
<b>Tools</b>			
<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

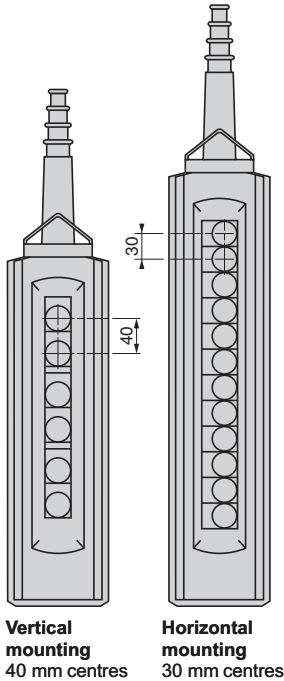
Double insulated, type XAC B

Metal, type XAC M

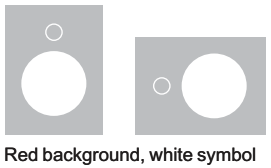
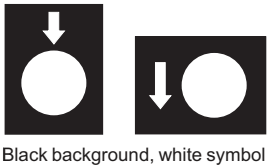
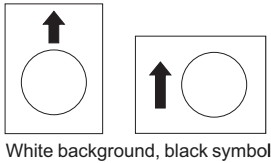
For control or power circuits

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

DF565665



DF565665



Symbol Reference	Symbol	Reference	Weight
Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres	kg
<b>Raise, slow</b>			
ZB2 BY4951		ZB2 BY4901	0.001
<b>Raise, fast</b>			
ZB2 BY4952		ZB2 BY4902	0.001
<b>Raise, slow-fast</b>			
ZB2 BY4953		ZB2 BY4903	0.001
<b>Right, slow</b>			
ZB2 BY4901		ZB2 BY4907	0.001
<b>Right, fast</b>			
ZB2 BY4902		ZB2 BY4908	0.001
<b>Right, slow-fast</b>			
ZB2 BY4903		ZB2 BY4909	0.001
<b>Forward, slow</b>			
ZB2 BY4963		ZB2 BY4913	0.001
<b>Forward, fast</b>			
ZB2 BY4964		ZB2 BY4914	0.001
<b>Forward, slow-fast</b>			
ZB2 BY4965		ZB2 BY4915	0.001
<b>Slew right, slow</b>			
ZB2 BY4919		ZB2 BY4919	0.001
<b>Slew right, fast</b>			
ZB2 BY4920		ZB2 BY4920	0.001
<b>Slew right, slow-fast</b>			
ZB2 BY4921		ZB2 BY4921	0.001
<b>Slow</b>			
ZB2 BY4933		ZB2 BY4933	0.001
<b>Klaxon</b>			
ZB2 BY4982		ZB2 BY4932	0.001
<b>Start</b>			
ZB2 BY4980		ZB2 BY4930	0.001

Symbol Reference	Symbol	Reference	Weight
Vertical mounting 40 mm centres		Horizontal mounting 30 mm centres	kg
<b>Lower, slow</b>			
ZB2 BY2954		ZB2 BY2904	0.001
<b>Lower, fast</b>			
ZB2 BY2955		ZB2 BY2905	0.001
<b>Lower, slow-fast</b>			
ZB2 BY2956		ZB2 BY2906	0.001
<b>Left, slow</b>			
ZB2 BY2904		ZB2 BY2910	0.001
<b>Left, fast</b>			
ZB2 BY2905		ZB2 BY2911	0.001
<b>Left, slow-fast</b>			
ZB2 BY2906		ZB2 BY2912	0.001
<b>Reverse, slow</b>			
ZB2 BY2966		ZB2 BY2916	0.001
<b>Reverse, fast</b>			
ZB2 BY2967		ZB2 BY2917	0.001
<b>Reverse, slow-fast</b>			
ZB2 BY2968		ZB2 BY2918	0.001
<b>Slew left, slow</b>			
ZB2 BY2922		ZB2 BY2922	0.001
<b>Slew left, fast</b>			
ZB2 BY2923		ZB2 BY2923	0.001
<b>Slew left, slow-fast</b>			
ZB2 BY2924		ZB2 BY2924	0.001
<b>Fast</b>			
ZB2 BY4934		ZB2 BY4934	0.001
<b>Start-Klaxon</b>			
ZB2 BY4985		ZB2 BY4935	0.001
<b>Stop</b>			
ZB2 BY2931		ZB2 BY2931	0.001

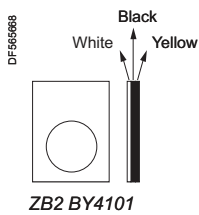
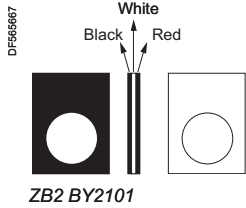
# Pendant control stations

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.				


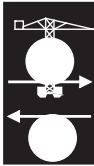


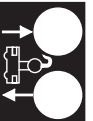
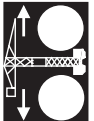

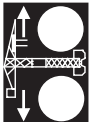
# Pendant control stations

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)							
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
<b>30 mm operator centres</b> (for enclosures with 12 operators in 1 row)							
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

## Pendant control stations

Double insulated, type XAC B

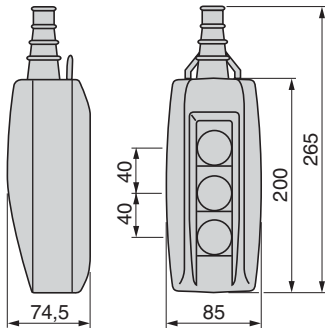
Metal, type XAC M

For control or power circuits

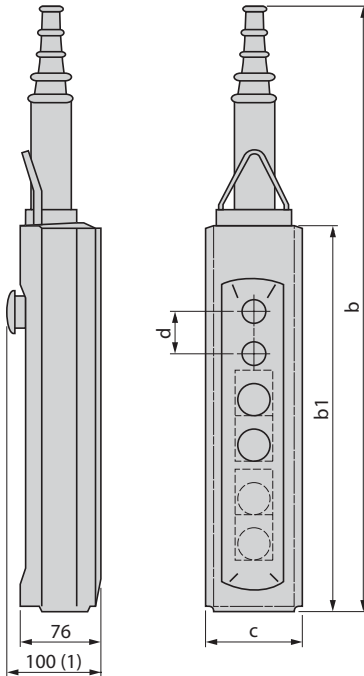
(XAC M: products for maintenance purposes only)

### Pendant control stations

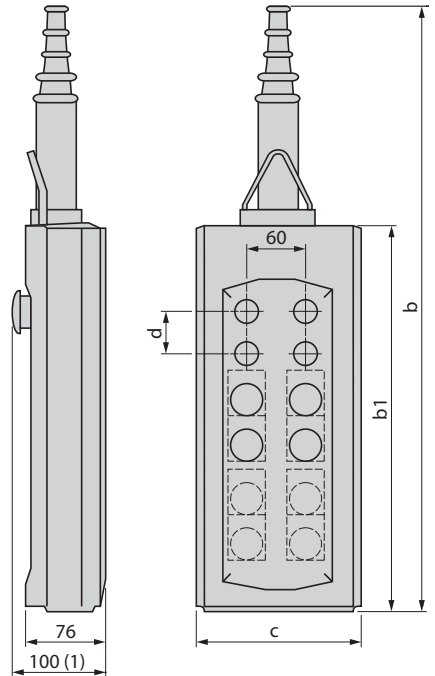
XAC B●●● (2 and 3-way)



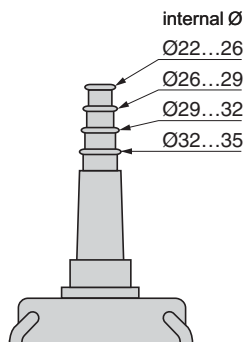
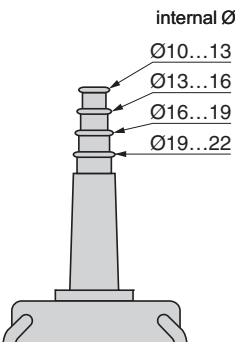
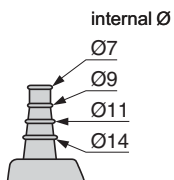
XAC B●●● (2 to 12-way, 1 row)  
XAC M●●● (4 to 8-way, 1 row)



XAC B●●● (12-way, 2 rows)



### Protective cable sleeves

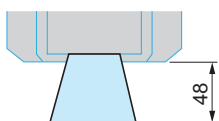


(1) With mushroom head operator.

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

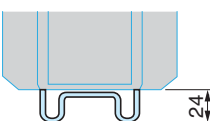
### Protective guards

XAC B982



### Lower support rings

XAC B971, B972



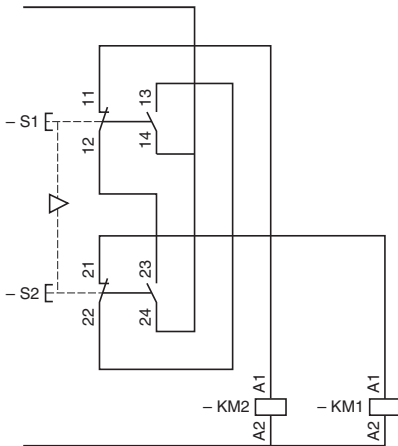
# Pendant control stations

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

## Control circuits

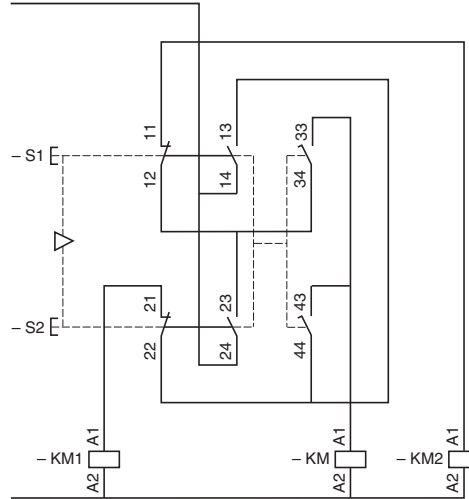
### For control of single-speed reversing motor

Contact block XES D1181



### For control of 2-speed reversing motor

Contact block XES D1281



KM: high speed contactor

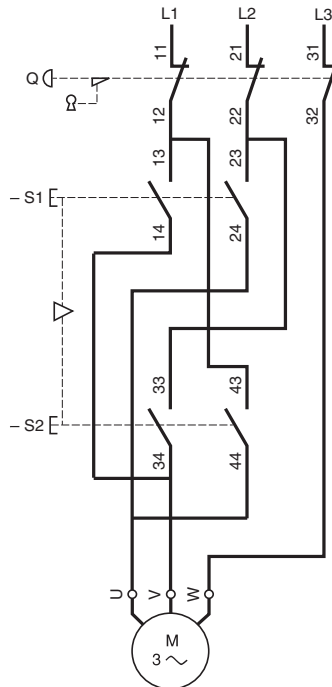
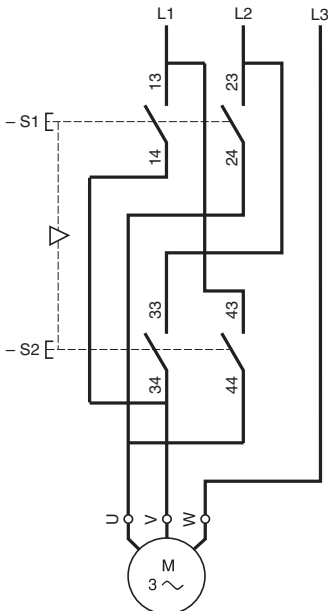
## Power circuits

### 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 trigger action latching Emergency stop operator (ZA2 BS944).

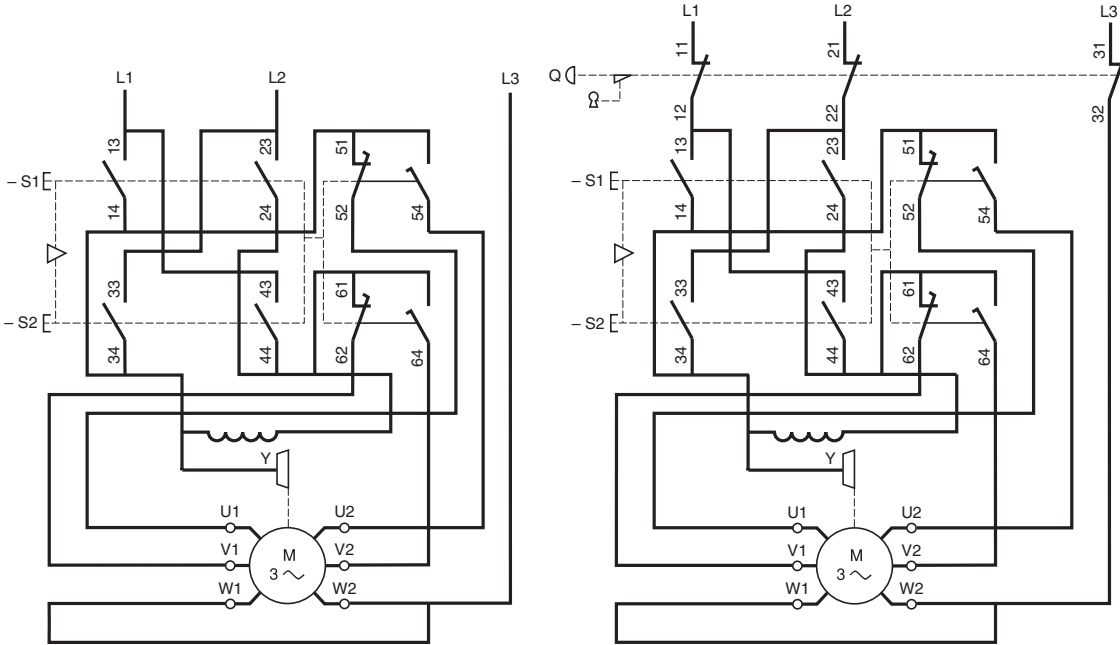


**Power circuits (continued)**

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

Contact block XES D1291

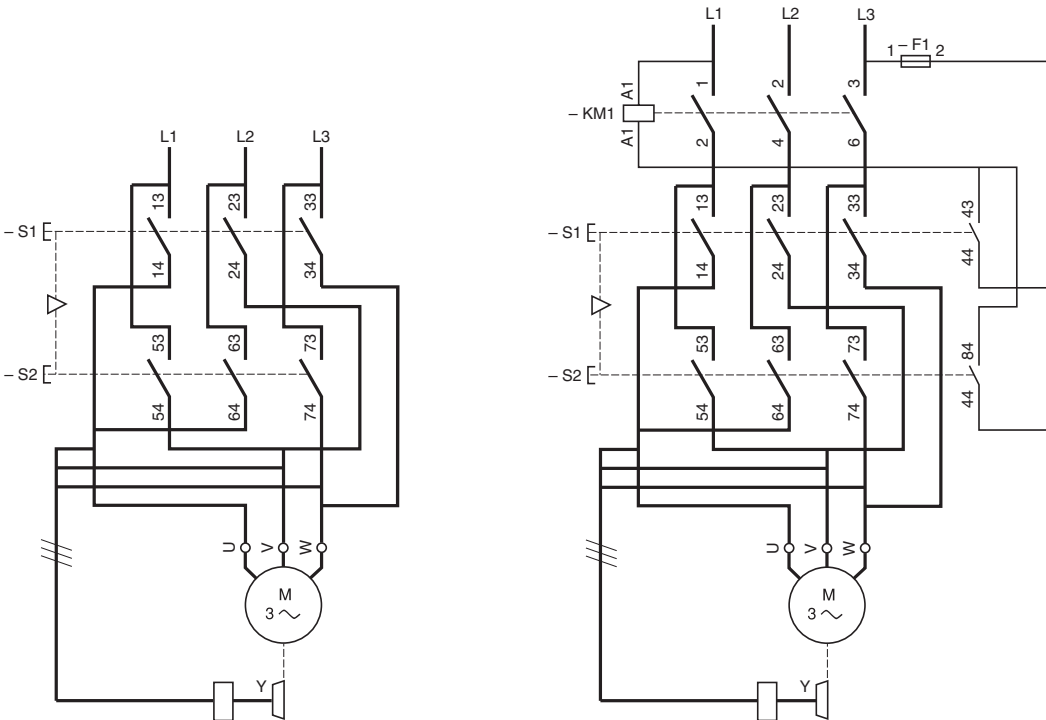
Application example:  
Combined with 3-pole isolating block XAC S399 or XAC S3991, shown in the unoperated position (pendant station "supplied"), fitted with key release trigger action latching Emergency stop operator (ZA2 BS944).



**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



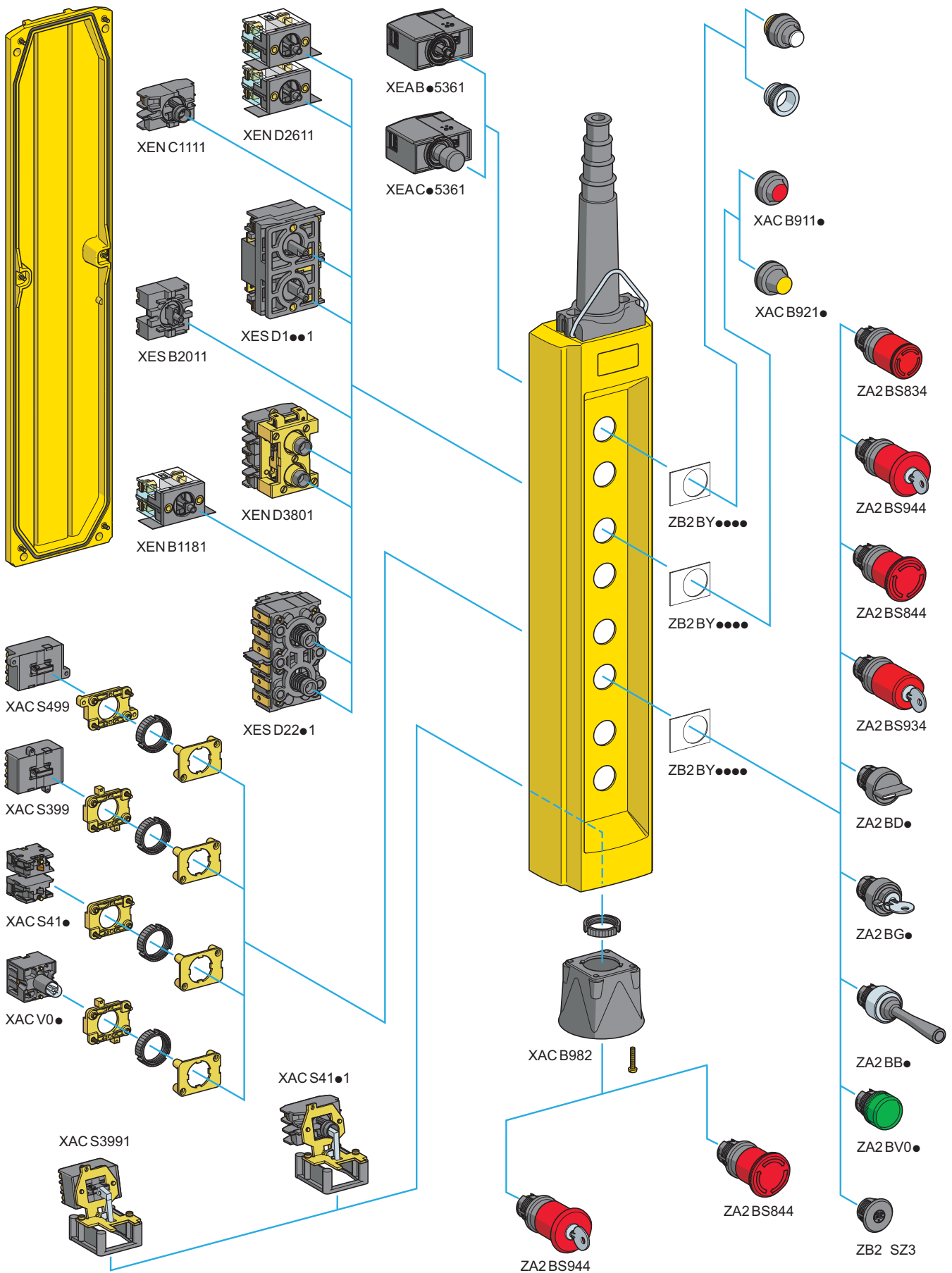


# Pendant control stations

Double insulated, type XAC B

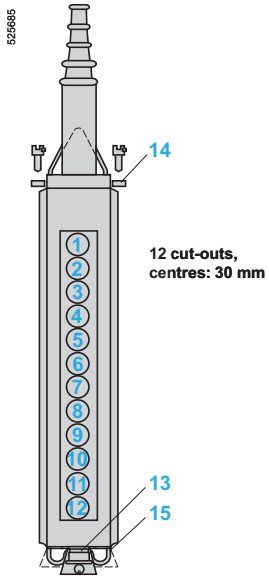
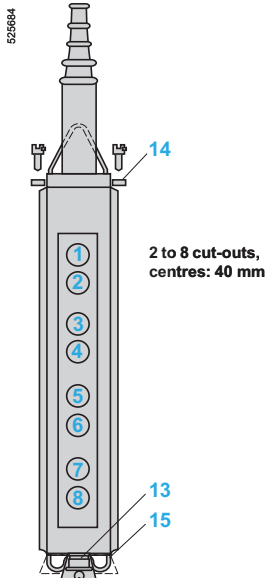
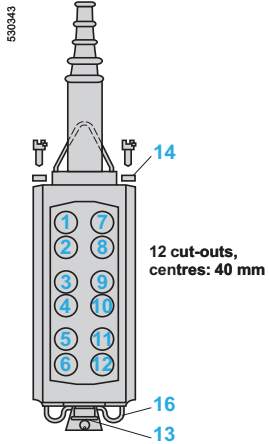
Metal, type XAC M

For control or power circuits



# 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



Customer			Schneider Electric Industries	
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 page 30076-EN/7	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 page 30076-EN/20		Contact blocks or pilot light bodies see page 30076-EN/10		Operating heads or pilot light heads or blanking plug see page 30076-EN/15		Total price
Reference	Unit price	Reference	Unit price	Reference	Unit price	

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)

13						
----	--	--	--	--	--	--

Factory assembled:

Number of heads or blanking plugs to be fitted

X

Additional cost XAC 9VA for fitting of 1 head or 1 blanking plug



Complementary accessories, see page 30076-EN/19 (cross the appropriate box or boxes)

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

Total price of assembled pendant station

(1) Obtain the empty enclosure price.