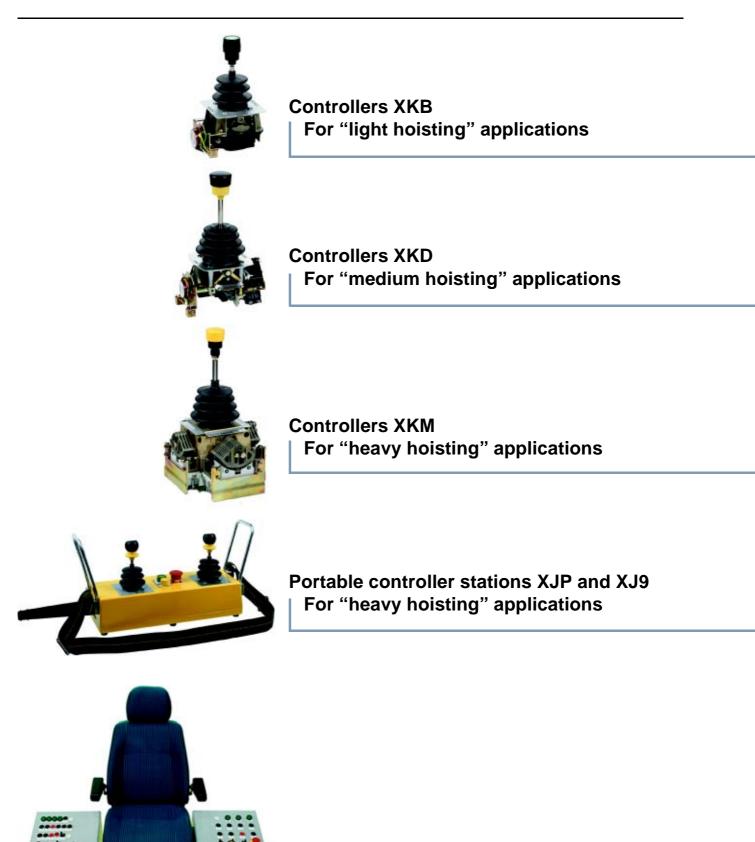


# **Controllers and controller stations**

The range of controllers type  ${\bf X}{\bf K}$ 



Fixed or rotating controller desks XJC For "heavy hoisting" applications

# **Controllers and controller stations**

**Application examples** 

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Public works cranes, stocking, materials handling, etc.



**Public works cranes** 

Cranes, overhead travelling cranes (iron and steelworks, rolling mills, etc.)



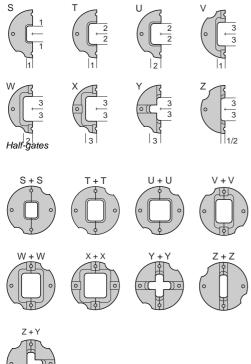
Public works cranes

## **Controllers** For "light hoisting" applications, type **XKB**

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XKB •



9 main combinations

Compact and lightweight units, designed to control "light hoisting" and materials handling equipment. Mainly for use in portable stations. 2 models:

- **XKB A**: controllers with predefined, non modifiable, scheme.
- **XKB E:** controllers with variable composition schemes.

#### Control lever

Length: 130 mm. Travel in each direction: 28° maximum.

### Lever gate

Universal and modifiable.

Specific, by adding half-gates to the universal lever gate (referenced by letter) 9 main combinations. .

#### End stops

The total lever travel can be limited to 20° or 12° by using removable end stops (**XKB Z972** for 20°, **XKB Z971** for 12°) when the lever gate comprises half-gates Y or Z.

#### Handles

- Simple handle with zero (centre) position contact (closed at zero).
- Handle with zero (centre) position mechanical interlock + contact (closed at zero).
- "Dead man's" handle with contact (open when handle released).
- Handle with built-in flush or projecting pushbutton and contact (open when pushbutton or handle released).

**Note:** it is important to decide which type of handle is required when selecting the controller, since modification cannot be affected after installation.

### **Electrical positions**

3 positions maximum in each direction.

## Types of lever movement

■ Notched positions, with stayput operation: 3 notches maximum in each direction (12°, 20°, 28°).

- Notched positions, with spring return to zero operation: 3 notches maximum
- in each direction (12°, 20°, 28°). (XKB E: only 1 contact may be used at each notch.)

■ Unnotched positions, with spring return to zero operation: 28° maximum

travel in each direction. (XKB E: only 1 contact may be used for each spring return to zero position.)

## Contacts

The contact blocks used for establishing the scheme are located in a monobloc assembly. There are 2 types:

□ Block with 4 contacts per movement.

□ Block with 4 contacts per movement + 1 zero (centre) position contact. For both types, an additional contact is available. Its function depends on the type of handle.

## Cam schemes

**XKB A**: standard schemes can be established using predefined cams. These cams are moulded and cannot be modified.

### 2 versions:

□ Using a block with 4 contacts per movement: 2 reversing cams and 2 function cams per movement.

□ Using a block with 4 contacts per movement + 1 zero (centre) position contact:

2 reversing cams and 2 function cams per movement + 1 zero (centre) position cam.

**XKB E**: special schemes can be established using snap-on cams (for each position) mounted on cam carriers. (overlapping contact operation is not possible). 2 versions:

□ Using a block with 4 contacts per movement: 4 variable composition cams per movement.

□ Using a block with 4 contacts per movement + 1 zero (centre) position contact: 4 variable composition cams per movement + 1 fixed composition zero (centre) position cam.

#### Legend

One 100 x 100 mm anodised aluminium legend plate with matt satin finish. Standard "hoist-long travel" and "traverse-slew" symbols or text (to be stated on Order form, see page 30252/3).

### Potentiometer adaptation

2 potentiometers maximum per movement when using block with 4 contacts per movement.

■ 1 potentiometer maximum per movement when using block with 4 contacts per movement + 1 zero (centre) position contact.

Order form: pages 30252/3 and 30252/4

## **Controllers** For "light hoisting" applications, type **XKB**

## CONG TY CO PHAN THIET BI ĐIEN LONG NGUYEN www.evnonline.vn – Tell 04 354 09147 – Mobile 0912290680

Environment								
Conformity to standards			IEC 337-1, NF C 63-140, VDE 0660 part 2					
Des dust santifications								
Product certifications			XKB A: CSA $\sim$ 300 V "heavy duty", == "standard duty", ASE: 500 mV max., 10 A max., 100 VA max., USSR					
Protective treatment			Standard version "TC"					
Ambient air temperature	For storage	°C	- 40+ 70					
	For operation	°C	- 20+ 70					
Operating position			All positions					
Vibration resistance			6 gn (1 to 70 Hz)					
Shock resistance	Conforming to IEC 68-2-27		20 gn, duration 11 ms					
Electric shock protection	Conforming to IEC 536 and NF C 20-030		Class I					
Maximum operating lever for required in each direction	ce	daN	< 1.7					
Degree of protection	Conforming to IEC 529		IP 54 (unit with simple handle mounted in dust and damp proof enclosure)					
Mechanical durability (In millions of operating cycles)			1 in each direction					
Weight		kg	<b>XKB A</b> and <b>XKB E</b> : ≂ 0.850					
Contact block chara	acteristics							
Гуре			Monobloc assembly comprising 9 double-break contacts (8 function contacts and 1 zero position contact mounted at lever base) or monobloc assembly comprising 11 double-break contacts (8 function contacts + 2 zero position contacts and 1 zero position contact mounted at lever base)					
Conventional thermal curren	t	Α	10 conforming to IEC 337-1, NF C 63-140, VDE 0660, CSA C 22-2 n° 14					
Rated insulation voltage		v	≂ 500 conforming to NF C 20-040, VDE 0110, IEC 158-1					
Insulation category			Group C conforming to NF C 20-040 and VDE 0110					
Contact operation			Slow break, double-break contacts with positive opening operation; N/O (green operator). N/C contact (red operator): zero position contact mounted at lever base					
Resistance across terminals		mΩ	≤ 25 (in accordance with NF C 93-050, at 1 A)					
Terminal referencing			Conforming to CENELEC EN 50013					
Short-circuit protection			10 A cartridge fuse type gG conforming to IEC 337-1B, VDE 0660 part 2					
<b>Operational power</b> Conforming to IEC 337-1 Utilisation categories AC-11 an Operating rate: 3600 operating Load factor: 0.5		or of operating cycles	ply     50-60 Hz     d.c. supply ==       ductive circuit     d.c. supply ==       380 V     220 V     127 V       Voltage V     24     48 V       00 V     48 V					

Connection	Captive screw clamp terminals	Clamping capacity:
		<ul> <li>minimum 1 x 0.5 mm<sup>2</sup>,</li> <li>maximum, with or without cable end: 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>, or by clips conforming to NF C 20-120</li> </ul>

5

10 20 Current (A)

Order form: pages 30252/2 to 30252/5

Dimensions: page 30260/2



0,1

0,4



## **Controllers**

For "light hoisting" applications, types **XKB A** and **XKB E** 

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Reference of controlle	er type XKB						
		Model	Contacts	Handle	Lever movement		Potentiometer adaptation
	ХКВ						
Model							
With predefined scheme		Α					
With variable composition scheme	9	E					
Contact blocks							
Block with 4 contacts per	Screw clamp terminal connect	ctions	1				
movement	6.3 clip connections		2				
Block with 4 contacts per movement	nt Screw clamp terminal connect	ctions	3				
+ 1 zero (centre) position contact	6.3 clip connections		4				
Handle							
Simple + zero (centre) position ele	ectrical interlocking (contact closed	sed in rest posi	tion)	1			
With zero (centre) position mecha	nical and electrical interlocking	(contact closed	d in rest position)	2			
"Dead man's" type (contact open	when released)			4			
With built-in flush pushbutton (con	ntact open in rest position)			5			
With built-in projecting pushbutton	n (contact open in rest position)			6			
Type of lever movement							
On movement AB							
Movement not required (blocked)					0		
Notched positions, with stayput op	peration				1		
Unnotched positions, with spring r	return to zero operation				2		
Notched positions, with spring retu	urn to zero operation (1)				3		
On movement CD							
Movement not required (blocked)						0	
Notched positions, with stayput op	peration					1	
Unnotched positions, with spring r						2	
Notched positions, with spring retu	urn to zero operation (1)					3	
Detentioneter edentation							
Potentiometer adaptation	ata -						•
Without adaptation nor potentione							0
Adaptation only (without potentiometer)	On movement AB						
	On movement CD						5
Adapteting a stanting of (2)	On movements AB + CD						6
Adaptation + potentiometer (2)	On movement AB						7
	On movement CD						8
	On movements AB + CD						9

(1) Type of lever operation recommended when using a potentiometer.
 (2) Potentiometer type and value to be stated on the Order form. For standard application potentiometers, see page 30261/2.

30252-EN\_Ver2.0.fm/2

Telemecanique

## Order form

# **Controllers**

(specimen suitable for photocopying) CONG TY CO PHAN THIETHERESIENCE A with predefined, non modifiable

## see exawww.evnonline.vn - Tell 04 354 09147 - Mobile 0912290680

				Schn	Schneider Electric Industries								
Company		Custome	r's reference	Sales	office	e - Subs	sid Plant	Editor	Geogr	aphical zon	e Orc	der N°	
Reference (use	a the arid	for com	nosing the refere	nce of a	or	troller	on nage '	30252/2)					
itererence (use	e the griu		posing the reference	Model		Contacts		Lever mov	oment	Potentiom	notor ada	ntation	
				model		Jointaolo	- Harialo		CD	1 otorition		plation	
			7		_								
Number of identical u	inits		ХКВ	Α									
For Schneider Elect	ric Industi	ies use o	nly										
Order N°	Item N°			MOD	E	TI	POI	GLV	стѕ	MAB	MCD	PAB	PCD
					Γ								
			XKB										
				-									
Lever gate	half ante-	ovoilable	skotch and			eter ada	-	a the eat-	oc holow				
In accordance with the crosshatch the lever's				On mo				n the schem Type/size:	es neiow	•			
below.			-	Si 110				Value:					
In the absence of this supplied with a "univer		i, ine contr	Olier Will De	On mo	veme	ent CD		Type/size:					
								Value:					
Legend													
Without legend													
With blank legend XKI	B Y1												
With "traverse-slew" sy	ymbols, XK	B Y2											
With "hoist-long travel"	" symbols,	ХКВ ҮЗ											
With specific engraved (clearly state the text of Left-hand operated un	on the sche												
Right-hand operated u													
Scheme 1: 4 contact	s per move	ment (viev	ved from above)				eme 2: 4 cor above)	ntacts + 1 ze	ero (centr	e) position c	ontact pe	er movemen	t (viewed
Orientation locater							tation loca	ter					
		ovement (					-		Mover	nent CD			$\backslash$
	Adaptat	ion P	otentiometer	Item	(1)	ľ	(1)	104		$\times$	103	·	em (1)
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T	ext:	-						Text:					
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AB Potentiometer	07						Direction	20°				Direction A	Potentiometer
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Adaptatic			iy ° L		ξ		Direction	<u> </u>				Text: - Direction B 23	
	Directio	on B 🎩		43 33		ŭ	<sup>4</sup> <del>4</del> <sup>8</sup> <b>1</b>	EXE Dir	ection B	•	-	<sup>23</sup> ∑ Dir	13
	ext:			•		-	' \	Text:				ノ	
Contact at lever base	Direction I	0 C	Direction C				ontact at ver base	- Direc	tion D	0 Direct	tion C 🗕		
64	4			] Item	(1)				×		73	, Ite	em (1)
Item (1) 54	4 X Adaptati		otentiometer				Item (1)	- 64 🔀	aptation	Potenti	0meter	s¦	
$\sim$		ovement (		/				Au	•	nent CD			

(1) Reserved for contact identification in the automation system scheme. It is not possible to mark it on the controller.

Dimensions: page 30260/2

Characteristics page 30251/3

Order form

# **Controllers**

(specimen suitable for photoconvinc) CONG TY CO PHAN THE PHOTOCONG TY CO PHOTOCONG

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Customer				Schneid	er Electric Indust	ries		
Company		Custome	er's reference		ce - Subsid Plant	Editor	Geographical zone	Order N°
						-		
<u> </u>							<u> </u>	
Reference (us	e the arid	for com	nosing the refere	ence of a co	ontroller on page	30252/2)		
Reference (us	e ine griu		posing the refere	Model	Contacts Handle	Lever mov	ement Potentiomete	r adaptation
				model		AB		
			_					
Number of identical u	units		ХКВ	E				
				E				
For Schneider Elect	tric Industr	ies use o	nly					
Order N°	Item N°			MOD	ETI POI	GLV (	CTS MAB MC	D PAB PCD
			XKB					
Lever gate					neter adaptation			
In accordance with the					e required position or		es below.	
crosshatch the lever's below.	illeia of mov	vement or	i me scheme grias	On moven	nent AB	Type/size:		
In the absence of this		, the conti	roller will be	0		Value:		
supplied with a "unive	rsal" gate.			On moven	ient CD	Type/size: Value:		
Legend						value.		
Without legend								
in lour logona								
With blank legend, XF	(B Y1							
\A/:++= "++================================		D VO						
With "traverse-slew" s	symbols, XK	B 12						
With "hoist-long travel	l" symbols, 2	ККВ ҮЗ						
	-							
With specific engrave								
(clearly state the text of Left-hand operated un		me below	)					
						all XKB E co	ntrollers will be supplied	with the standard scheme
Right-hand operated u	unit			as used for	· XKB A.			
Scheme 1: 4 contact	ts per move	ment (viev	ved from above)		Scheme 2: 4 cor	ntacts + 1 ze	ro (centre) position conta	act per movement (viewed
			nou nom abovo,		from above)	10010 1 1 20		
Orientation locater					<b>Orientation loca</b>	ter		
		ovement					Movement CD	_
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<b>Te</b> ) ↑ [ <sup>23</sup>	Directio	n B 📕	Text:	43 43	↓ <sup>22</sup>	E Dire	ection B 📕	
	ext:				Contact of	Text:		
Contact at lever base	- Direction [	0	Direction C		Contact at lever base	- Direct	ion D 0 Direction	c→
	64		63¦	Item (1)		74		
Item (1) 5	j4		53	/	Item (1)	64		63
$\mathbf{X}$	Adaptati	on P	otentiometer			Ada	Aptation Potention	
X	N C	wement	Let l				Movement CD	

(1) Reserved for contact identification in the automation system scheme. It is not possible to mark it on the controller. Spring return operation: only 1 contact can be used with spring return at each notch.



## Order form example

# Controllers

For "light hoisting" applications, type **XKB E** Ordering form completion example

CONG TY CO PHAN THIET BI ĐIEN LONG NGUYEN

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Requirement	Composition of the reference (see page 30252/2)
A 2 movement controller:	
"hoist-long travel". "Universal" lever gate, limited to 2 "lower" XKB positions.	E 3 4 2 3 7
Model	
With variable composition scheme (customised electrical scheme as shown below)	E
Contact blocks	
Block with 4 contacts + 1 zero (centre) position contact per movement (screw clamp terminals).	3
Handle	
"Dead man's" type	4
Type of lever operation on movement AB Unnotched positions, with spring return to zero operation	2
Type of lever operation on movement CD	<u> </u>
Notched positions, with spring return to zero operation	3
Potentiometer adaptation	
With adaptation device + potentiometer on movement AB, star	ndard 4700 Ω, size 15, model 7
Electrical scheme for movement AB "hoist"	Electrical scheme for movement CD "long travel"
3 2 1 0 1 2 3	3 2 1 0 1 2 3 Reverse
Lower	Forward
Raise	
R.HS	<u>+</u> + + + + + + + S3
(Raise) + Potentiometer (Lower)	(Reverse) (Forward)
Lever gate	Potentiometer adaptation
In accordance with the half-gates available, sketch and	Cross $\mathbf{X}$ the required position on the schemes below.
crosshatch the lever's field of movement on the scheme grids	On movement AB Type/size: XKZ A15047
below.	Value: 4700 Ω
In the absence of this information, the controller will be supplied with a "universal" gate.	On movement CD Type/size:
ouppilou milita unitolour galo.	Value:
Legend	
Without legend	With specific engraved text, XKB Y1001
	(clearly state the text on the scheme below)
Without legend With blank legend, XKB Y1	
With blank legend, XKB Y1	(clearly state the text on the scheme below) Left-hand operated unit
	(clearly state the text on the scheme below)
With blank legend, XKB Y1	(clearly state the text on the scheme below) Left-hand operated unit
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater         Movement CD	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater         Movement CD	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater         Movement CD	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1         With "traverse-slew" symbols, XKB Y2         With "hoist-long travel" symbols, XKB Y3         Scheme 1: 4 contacts per movement (viewed from above)         Orientation locater         Image: Stream of the symbols of	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below)         Left-hand operated unit         Right-hand operated unit         ▲ If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A.         Scheme 2: 4 contacts + 1 zero (centre) position contact per movement         Orientation locater
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD 104 93 83: Forw Direction D 0 Direction C 105 104 105 107 107 107 107 107 107 107 107
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD 104 93 83: Forw Direction D 0 Direction C 105 104 105 107 107 107 107 107 107 107 107
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Adaptation Potentiometer B Adaptation Potentiometer B Adaptation D 0 Direction C Text: Direction A	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD 104 93 83: Forw Direction D 0 Direction C 105 104 105 107 107 107 107 107 107 107 107
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer 12' 20' 28' 0 Direction A 28' 20' 12' 12' 20' 28' 0 Direction A 28' 20' 12' 12' 20' 28' 0 Direction A	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD Item (1) C C C C C C C C C C C C C C C C C C C
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer 12' 20' 28' 0 Direction A 28' 20' 12' 12' 20' 28' 0 Direction A 28' 20' 12' 12' 20' 28' 0 Direction A	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD Item (1) C C C C C C C C C C C C C C C C C C C
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer 12' 20' 28' 0 Direction A 12' 20' 20' 20' 20' 0 Direction A 12' 20' 20' 20' 20' 20' 20' 20' 20' 20' 2	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer B Adaptation D Direction C Text: Direction A 28' 20' 12' 12' 20' 28' (C) (C) (C) (C) (C) (C) (C) (C)	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD Text: Direction D o Direction C + C V origination of the scheme is and a scheme is not defined, all XKB E controllers will be supplied with the standard scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Text: Direction D o Direction C + C Scheme 1: 28' 20' 12' 12' 20' 28' Forw - Scheme -
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer B Adaptation D Direction C Text: Direction A 28' 20' 12' 12' 20' 28' (C) (C) (C) (C) (C) (C) (C) (C)	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD Text: Direction D o Direction C + C V origination of the scheme is and a scheme is not defined, all XKB E controllers will be supplied with the standard scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Text: Direction D o Direction C + C Scheme 1: 28' 20' 12' 12' 20' 28' Forw - Scheme -
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer B Adaptation D Direction C Text: Direction A 28' 20' 12' 12' 20' 28' (C) (C) (C) (C) (C) (C) (C) (C)	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD Utem (1) B Humon (1) C C C C C C C C C C C C C C C C C C C
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD V Uppend U Uppend
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Movement CD Adaptation Potentiometer B Adaptation D Direction C Text: Direction A 28' 20' 12' 12' 20' 28' (C) (C) (C) (C) (C) (C) (C) (C)	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD V V V V V V V V V V V V V V V V V V V
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD V U U U U U U U U U U U U U U U U U U U
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD V Uppend S S S S S S S S S S S S S S S S S S S
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater
With blank legend, XKB Y1 With "traverse-slew" symbols, XKB Y2 With "hoist-long travel" symbols, XKB Y3 Scheme 1: 4 contacts per movement (viewed from above) Orientation locater Adaptation Potentiometer Adaptation D o Direction C Text: Contact at lever base Contact at lever base	(clearly state the text on the scheme below) Left-hand operated unit Right-hand operated unit A If the scheme is not defined, all XKB E controllers will be supplied with the standard scheme as used for XKB A. Scheme 2: 4 contacts + 1 zero (centre) position contact per movement Orientation locater Novement CD V Uppend S S S S S S S S S S S S S S S S S S S

(1) Reserved for contact identification in the automation system scheme. It is not possible to mark it on the controller. Spring return operation: only 1 contact can be used with spring return at each notch.

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