

Controllers

For “heavy hoisting” applications, type **XKM**
Grid for composing the reference of a controller XKM A or XKM B

Reference of a controller type XKM A or XKM B

	Model	Lever	Handle	Contacts	Movement AB			Movement CD (XKM A only)		
					No. of blocks	Lever movement	Potentiometer adaptation	No. of blocks	Lever movement	Potentiometer adaptation
XKM										
Model										
2 movement controller (AB + CD)	A									
1 movement controller (AB)	B									
Control lever										
Short: length 200 mm (standard)		1								
Long: length 250 mm		2								
Handle										
Simple (standard model)			1							
With zero (centre) position mechanical interlocking			2							
With zero (centre) position mechanical & electrical interlocking (1 C/O contact)			3							
“Dead man’s” type (1 C/O contact)			4							
With built-in flush pushbutton (1 C/O contact)			5							
With built-in projecting pushbutton (1 C/O contact)			6							
Type of contacts										
Block of 4 double-break contacts (standard model)				1						
Block of 4 double-break contacts with magnetic blow-out				2						
Movement AB										
Number of 4-contact blocks										
					0					
					1					
					2					
					3					
					4					
					5					
					6					
Type of lever movement										
Notched positions, with stayput operation	5 notches (1)	Normal lever force			1					
					2					
	6 notches (2)	Normal lever force			3					
					4					
Notched positions, with spring return to zero operation	5 notches (1)				5					
	6 notches (2)				6					
Unnotched positions, with spring return to zero operation (3)					7					
Potentiometer adaptation										
Without potentiometer support plate, or potentiometer							0			
With potentiometer support plate only (4) (potentiometer not included)							1			
With potentiometer support plate + potentiometer (5)							2			
Movement CD (for type XKM A only)										
Number of 4-contact blocks										
								0		
								1		
								2		
								3		
								4		
								5		
								6		
Type of lever movement										
Notched positions, with stayput operation	5 notches (1)	Normal lever force						1		
								2		
	6 notches (2)	Normal lever force						3		
								4		
Notched positions, with spring return to zero operation	5 notches (1)							5		
	6 notches (2)							6		
Unnotched positions, with spring return to zero operation (3)								7		
Potentiometer adaptation										
Without adaptation nor potentiometer										0
With adaptation only (without potentiometer)										1
With adaptation + potentiometer (5)										2

(1) 5 mechanical notches (1st notch at 12°) (6 electrical positions in each direction). (2) 6 mechanical notches (1st notch at 6°) (6 electrical positions in each direction).
(3) Type of lever operation recommended when using a potentiometer. (4) Adaptation including 15 tooth pinion.
(5) Potentiometer type and value to be stated on the Order form, see pages 44 and 45.

Order form

(specimen suitable for photocopying)

See example on page 31

Controllers

For "heavy hoisting" applications, type **XKM**
Controllers XKM A and XKM B with variable
composition schemes, factory assembled

Customer		Schneider Electric Industries			
Company	Customer's reference	Sales office - Subsid. - Plant	Editor	Geographical zone	Order N°

Reference (use the grid for composing the reference of a controller on page 28)

	Model	Lever	Handle	Type of contact	Movement AB			Movement CD (XKM A only)			
					No. of blocks	Lever movement	Potentiometer adaptation	No. of blocks	Lever movement	Potentiometer adaptation	
Number of identical units											

For Schneider Electric Industries use only

Order N°	Item N°	MOD	LEV	POI	GLV	CT1	CT3	MAB	P13	CT2	CT4	MCD	P24
		XKM											

Scheme: viewed from above

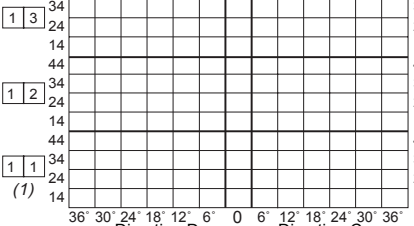
Lever gate

Sketch and crosshatch the lever's field of movement on the grid



Movement CD (XKM A only)

Adaptation ☐ Potentiometer ☐



Direction D ← 36° 30' 24' 18' 12' 6' 0 6° 12' 18' 24' 30' 36° → Direction C

Potentiometer adaptation

Cross ☒ the position on the scheme

On movement AB

Type/size: _____

Value: _____

On movement CD

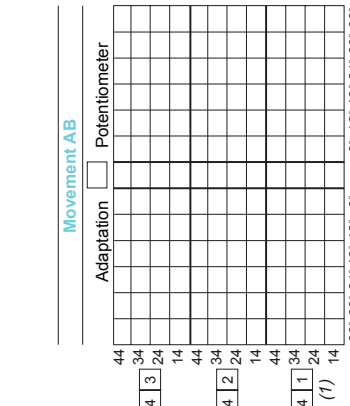
Type/size: _____

Value: _____

Drum n°3

Item (2)

Movement AB ☐ Potentiometer ☐

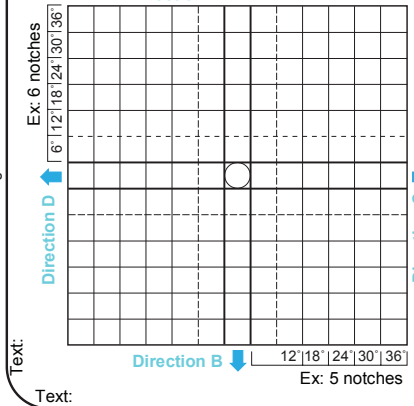


Direction A → 36° 30' 24' 18' 12' 6' 0 6° 12' 18' 24' 30' 36° → Direction B

Drum n°2

Item (2)

Movement AB ☐ Potentiometer ☐

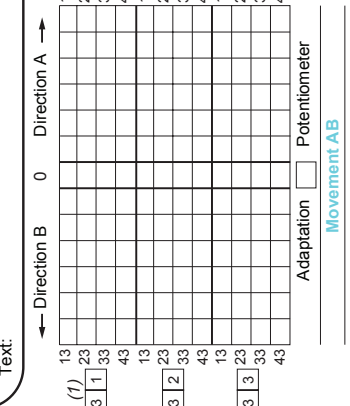


Direction A → 36° 30' 24' 18' 12' 6' 0 6° 12' 18' 24' 30' 36° → Direction B

Drum n°1

Item (2)

Movement AB ☐ Potentiometer ☐

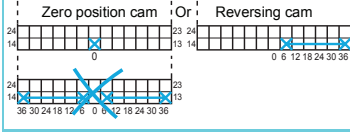


Direction A → 36° 30' 24' 18' 12' 6' 0 6° 12' 18' 24' 30' 36° → Direction B

Choice of cam carriers

(1) The 1st cam must either be a zero position cam or a reversing cam.

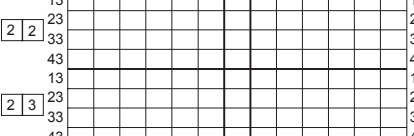
Zero position cam ☐ Or Reversing cam ☐



Drum n°4

Item (2)

Movement AB ☐ Potentiometer ☐



Direction D ← 36° 30' 24' 18' 12' 6' 0 6° 12' 18' 24' 30' 36° → Direction C

Legend (1 for each direction)

Without legend ☐

Blank legend XKM Y1 ☐

Legend with specific engraving (clearly state text on this scheme)

Left-hand operated unit ☐

Right-hand operated unit ☐

Legend with standard text (see page 39)

Left-hand operated unit ☐

Right-hand operated unit ☐

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

Contact at lever base ☐

Item (2)

△ 2 simultaneous contacts maximum with spring return can be used at 6° and then 4 contacts at each subsequent 6° position.

Controllers

For “heavy hoisting” applications, type **XKM A**
Controller selection example

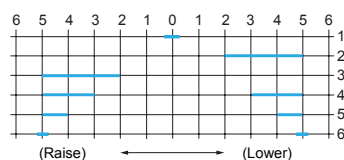
Requirement

A 2 movement controller: “hoist-long travel”.

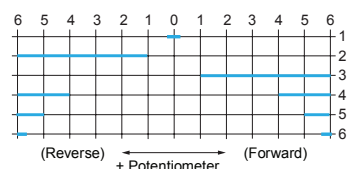
Universal lever gate, limited to 4 notches on the “raise” and “lower” directions (1st notch at 12°).

Potentiometer adaptation on movement CD. Potentiometer selected: 4700 Ω, size 15, standard model.

Scheme for movement AB “hoist”



Scheme for movement CD “long travel”



Notes:

Movement AB

Two installation alternatives depending on the required size:

- 2 blocks of 4 contacts, both on the same side of the mechanical block (example shown),
- 1 block of 4 contacts on either side of the mechanical block.

Movement CD

Same installation alternatives as for movement AB.

Two alternatives for potentiometer installation:

- On end of cam carriers and contact supports (example shown).
- Directly on the mechanical block.

Composition of the reference (see page 28)

	XKM	A	1	4	1	2	5	0	2	7	2
Model		A									
2 movements (AB + CD)		A									
Control lever			1								
Short: length 200 mm (standard)			1								
Handle				4							
“Dead man’s” type with 1 C/O contact				4							
Type of contacts					1						
Standard double-break					1						
Movement AB											
Number of 4-contact blocks						2					
2 blocks (i.e. 8 contacts when 6 contacts required)						2					
Type of lever movement							5				
Notched positions, with spring return to zero operation and 5 notch sectors (starting from 12°)							5				
Potentiometer								0			
Without adaptation device or potentiometer								0			
Movement CD											
Number of 4-contact blocks									2		
2 blocks (i.e. 8 contacts when 6 contacts required)									2		
Type of lever movement										7	
Unnotched positions, with spring return to zero operation										7	
Potentiometer											2
With potentiometer adaptation device + size 15, 4700 Ω potentiometer											2

Controllers

For "heavy hoisting" applications, type **XKM A**
Ordering form completion example

Customer		Schneider Electric Industries			
Company	Customer's reference	Sales office - Subsid. - Plant	Editor	Geographical zone	Order N°

Reference (use the grid for composing the reference of a controller on page 28)

	Model	Lever	Handle	Type of contact	Movement AB			Movement CD		
					No. of blocks	Lever movement	Potentiometer adaptation	No. of blocks	Lever movement	Potentiometer adaptation

Number of identical units

1 XKM A 1 4 1 2 5 0 2 7 2

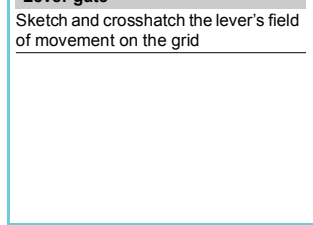
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Order N°	Item N°	MOD	LEV	POI	GLV	CT1	CT3	MAB	P13	CT2	CT4	MCD	P24
		XKM											

Scheme: viewed from above

Lever gate

Sketch and crosshatch the lever's field of movement on the grid



Potentiometer adaptation

Cross ☒ the position on the scheme

On movement AB

Type/size:

Value:

On movement CD

Type/size:

Value: 4700 Ω

Choice of cam carriers

(1) The 1st cam must either be a zero position cam or a reversing cam.

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

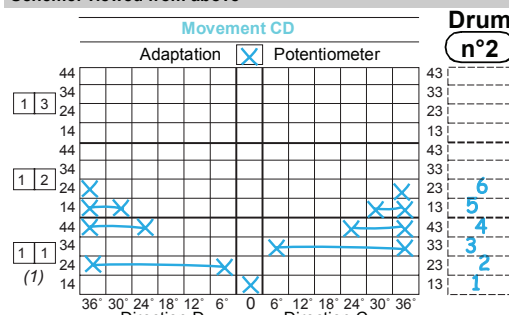
Contact at lever base

☒ D/man's

Item (2)

Drum n°2

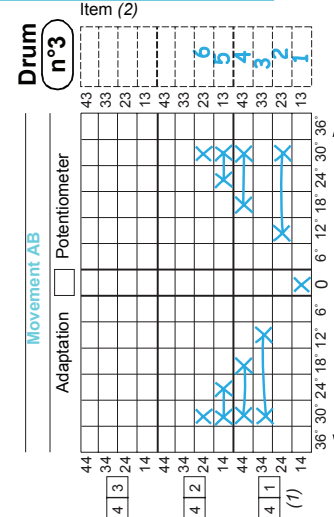
Adaptation ☒ Potentiometer



Item (2)

Drum n°3

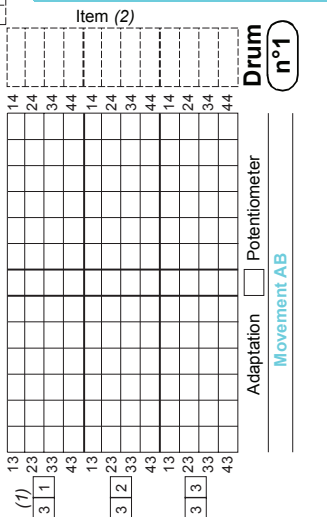
Adaptation ☐ Potentiometer



Item (2)

Drum n°1

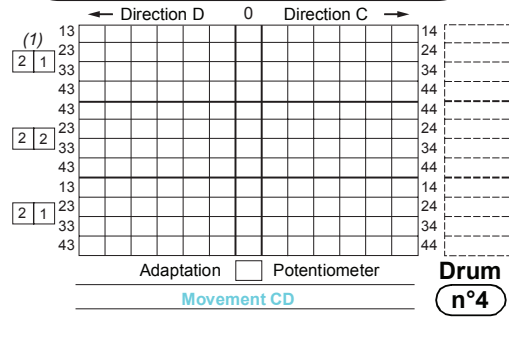
Adaptation ☐ Potentiometer



Item (2)

Drum n°4

Adaptation ☐ Potentiometer



Item (2)

Legend (1 for each direction)

Without legend ☐

Blank legend XKM Y1 ☐

Legend with specific engraving (clearly state text on this scheme)

Left-hand operated unit ☐

Right-hand operated unit ☐

Legend with standard text (see page 39)

Left-hand operated unit ☒

Right-hand operated unit ☐

△ 2 simultaneous contacts maximum with spring return can be used at 6° and then 4 contacts at each subsequent 6° position.