

## Reference of controller type XKD

	Lever	Handle	Movement AB			Movement CD		
			No. of blocks	Lever movement	Potentiometer adaptation	No. of blocks	Lever movement	Potentiometer adaptation
<b>XKD F</b>	<b>1</b>							
<b>Control lever</b>								
Standard model, length 200 mm	1							
<b>Handle</b>								
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		4						
	With N/C + N/O contact	5						
With built-in flush pushbutton		6						
	With N/O + N/O contact	7						
With built-in projecting pushbutton		8						
	With N/O + N/O contact	9						
<b>Movement AB</b>								
<b>Number of 2-contact blocks</b>								
0 blocks			0					
1 block			1					
2 blocks			2					
3 blocks			3					
4 blocks			4					
5 blocks			5					
6 blocks			6					
8 blocks			8					
<b>Type of lever movement</b>								
Notched positions, with stayput operation	3 notches (1)			1				
	5 notches (starting from 12°) or 6 notches (from 6°) (2) (3)			2				
Notched positions, with spring return to zero operation	3 notches (1)			3				
	5 notches (starting from 12°) or 6 notches (from 6°) (2) (3)			4				
Unnotched positions, with spring return to zero operation (4)				5				
<b>Potentiometer adaptation</b>								
Without adaptation nor potentiometer					0			
With adaptation only (without potentiometer)					1			
With adaptation + potentiometer (5)					2			
<b>Movement CD</b>								
<b>Number of 2-contact blocks</b>								
0 blocks						0		
1 block						1		
2 blocks						2		
3 blocks						3		
4 blocks						4		
5 blocks						5		
6 blocks						6		
8 blocks						8		
<b>Type of lever movement</b>								
Notched positions, with stayput operation	3 notches (1)						1	
	5 notches (starting from 12°) or 6 notches (starting from 6°) (2) (3)						2	
Notched positions, with spring return to zero operation	3 notches (1)						3	
	5 notches (starting from 12°) or 6 notches (starting from 6°) (2) (3)						4	
Unnotched positions, with spring return to zero operation (4)							5	
<b>Potentiometer adaptation</b>								
Without adaptation nor potentiometer								0
With adaptation only (6) (without potentiometer)								1
With adaptation (6) + potentiometer (5)								2

(1) 3 notches: restricted to 2-contact variable composition cams only.  
 (2) 5 notches: by using 1 or 2 variable composition 4 or 8-contact cams. 1<sup>st</sup> mechanical notch at 12° (6 electrical positions in each direction).  
 (3) It is possible to obtain 6 mechanical notches, 1<sup>st</sup> mechanical notch at 6° (6 electrical positions in each direction). Please consult your Regional Sales office.  
 (4) Type of lever operation recommended when using a potentiometer.  
 (5) Potentiometer type and value to be stated on the Order form, see pages 30261/2 and 30261/3.  
 (6) It is possible to obtain 6 mechanical notches, 1<sup>st</sup> mechanical notch at 6° (6 electrical positions in each direction). Please consult your Regional Sales office.

# Controllers

For “medium hoisting” applications, type **XKD F** Controllers with variable composition schemes, factory assembled

See example on page 30255/5

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

**Reference (use the grid for composing the reference of a controller on page 30255/2)**

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

Number of identical units  **XKD F**

**For Schneider Electric Industries use only**

Order N°	Item N°	MOD	LEV	POI	GLV	CT1	CT3	MAB	P13	CT2	CT4	MCD	P24
XKD	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

Choice of cam carriers (1)

(c)  (b)  (a)

**Movement CD**  
Adaptation  Potentiometer

**Drum n°2**

Item (2)

Direction D 0 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**  
Adaptation  Potentiometer

Choice of cam carriers (1)

(c)  (b)  (a)

Text: **Direction A** Ex: 5 notches  
36° 30' 24' 18' 12' 6' | 12' 18' 24' 30' 36'

Text: **Direction B** Ex: 3 notches  
36° 30' 24' 18' 12' 6' | 12' 24' 36'

Text: **Direction D** Ex: 6 notches  
6' 12' 18' 24' 30' 36'

Text: **Direction C** Ex: 3 notches  
12' 24' 36'

Direction D 0 Direction C

**Drum n°1**

Item (2)

**Movement AB**  
Adaptation  Potentiometer

Choice of cam carriers (1)

(c)  (b)  (a)

**Choice of cam carriers**

(1) Cross  the type of cam carrier required:  
(a): 3 notch cam carrier, 2 contacts max.,  
(b): 5 notch cam carrier, 4 contacts max.,  
(c): 5 notch cam carrier, 8 contacts max.

(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)

**Movement CD**  
Adaptation  Potentiometer

**Drum n°4**

Item (2)

**Legend**

Without legend

Blank legend **XKB Y1**

Legend with specific engraving, **XKD Y1001** (clearly state text on this scheme)

Left-hand operated unit

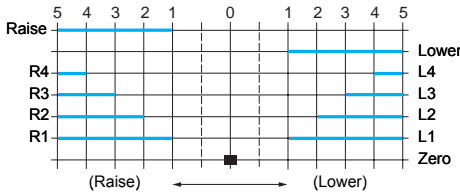
Right-hand operated unit

- Electrical overlapping of contacts is not possible between the 5<sup>th</sup> and 6<sup>th</sup> notches.
- Spring return operation: 2 simultaneous contacts maximum with spring return can be used at 6° and then 4 contacts at each subsequent 6° position.

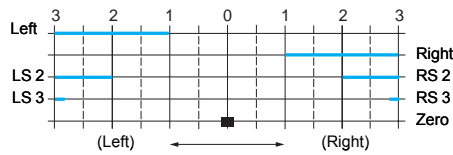
## Requirement

A 2 movement controller: “hoist-traverse”.  
“Cross” type lever gate. Controller conforming to NF E 52-070.  
No potentiometer adaptation on movements AB or CD.

### Scheme for movement AB “hoist”



### Scheme for movement CD “traverse”



## Notes:

### Movement AB

The scheme for movement AB requires 7 contacts, therefore, select 4 blocks of 2 contacts.  
The only alternative is the selection of either drum n° 3 or n° 1, depending on the available space.

### Movement CD

The space between each notch indicated on the 3 position scheme cannot be adhered to.  
Effectively, to obtain 5 contacts, a 2-contact block can be selected (drum n° 2), which does not increase the size of the base, together with 2 x 2-contact blocks (drum n° 4).  
The lever gate will limit the lever travel to 3 notches.

## Composition of the reference (see page 30255/2)

	XKD F	1	2	4	4	0	3	4	0
<b>Control lever</b> Standard, length 200 mm		1							
<b>Handle</b> With zero (centre) position mechanical interlocking			2						
<b>Movement AB “hoist”</b>									
<b>Number of 2-contact blocks</b> 4 blocks				4					
<b>Type of lever movement</b> 5 notched positions, with spring return to zero operation					4				
<b>Potentiometer adaptation</b> Without adaptation nor potentiometer						0			
<b>Movement CD “traverse”</b>									
<b>Number of 2-contact blocks</b> 3 blocks							3		
<b>Type of lever movement</b> 5 notched positions, with spring return to zero operation								4	
<b>Potentiometer adaptation</b> Without adaptation nor potentiometer									0

# Controllers

For "medium hoisting" applications, type **XKD F**  
Ordering form completion example

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

**Reference (use the grid for composing the reference of a controller on page 30255/2)**


Number of identical units

1      **XKD F**    1    2    4    4    0    3    4    0

**For Schneider Electric Industries use only**

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

**Scheme: viewed from above**

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

**Movement CD**  
Adaptation  Potentiometer

Drum n°2

Potentiometer adaptation  
Cross  the position on the scheme  
On movement AB  
Type/size:  
Value:  
On movement CD  
Type/size:  
Value:

**Potentiometer adaptation**  
Cross  the position on the scheme  
On movement AB  
Type/size:  
Value:  
On movement CD  
Type/size:  
Value:

**Drum n°3**

Zero 4 3 2 1 LOWER RAISE

Choice of cam carriers (1)

Text: LOWER Direction A Ex: 5 notches

Text: RAISE Direction B Ex: 3 notches

Choice of cam carriers (1)

**Drum n°1**

Choice of cam carriers (1)

**Choice of cam carriers**

(1) Cross  the type of cam carrier required:  
(a): 3 notch cam carrier, 2 contacts max.,  
(b): 5 notch cam carrier, 4 contacts max.,  
(2) Reserved for contact identification in the automation system scheme. It is not possible to mark it on the controller.  
Contact at lever base  
N°: KI-51-52  
N°: KI-K2

**Legend**

Without legend

Blank legend **XKB Y1**

Legend with specific engraving, **XKD Y1001** (clearly state text on this scheme)

Left-hand operated unit

Right-hand operated unit

- Electrical overlapping of contacts is not possible between the 5<sup>th</sup> and 6<sup>th</sup> notches.
- Spring return operation: 2 simultaneous contacts maximum with spring return can be used at 6° and then 4 contacts at each subsequent 6° position.