## Controllers XKB

For "light hoisting" applications


Controllers XKD
For "medium hoisting" applications


## Controllers XKM

For "heavy hoisting" applications


Portable controller stations XJP and XJ9
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


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: $28^{\circ}$ 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 $20^{\circ}$ or $12^{\circ}$ by using removable end stops ( $\boldsymbol{X K B} \mathbf{Z 9 7 2}$ for $20^{\circ}$, $\boldsymbol{X K B} \mathbf{Z 9 7 1}$ for $12^{\circ}$ ) 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 ( $12^{\circ}, 20^{\circ}, 28^{\circ}$ ).

- Notched positions, with spring return to zero operation: 3 notches maximum in each direction $\left(12^{\circ}, 20^{\circ}, 28^{\circ}\right)$. (XKB E: only 1 contact may be used at each notch.) ■ Unnotched positions, with spring return to zero operation: $28^{\circ}$ 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 $100 \times 100 \mathrm{~mm}$ 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.

| Characteristics: | Order form: | Dimensions: |
| :--- | :--- | :--- |
| page 30251/3 | pages 30252/3 and 30252/4 | page 30260/2 |

## Controllers

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Environment



| Characteristics: | Dimensions: |
| :--- | :--- |
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## Order form

(specimen suitable for
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| Customer <br> Company | Customer's reference | Schneider Electric Industries <br> Sales office - Subsid. - Plant |  |  |  |  | Editor | Geographical zone | Order $\boldsymbol{N}^{\circ}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |

Reference (use the grid for composing the reference of a controller on page 30252/2)
Model Contacts Handle Lever movement Potentiometer adaptation



Scheme 1: 4 contacts per movement (viewed from above)
Orientation locater


Scheme 2: 4 contacts + 1 zero (centre) position contact per movement (viewed from above)
Orientation locater


[^0]
## Controllers

(specimen suitable for

## For "light hoisting" applications, type XKB E

Controllers XKB E with variable and modifiable
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| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |



## Lever gate

In accordance with the half-gates available, sketch and crosshatch the lever's field of movement on the scheme grids below.
In the absence of this information, the controller will be supplied with a "universal" gate.

## Potentiometer adaptation

Cross 【 the required position on the schemes below.

| On movement $A B$ | Type/size: |
| :--- | :--- |
| On movement $C D$ | Type/size: |
|  | Value: |

Legend

| Without legend | $\square$ |
| :--- | :--- |
| With blank legend, XKB Y1 | $\square$ |
| With "traverse-slew" symbols, XKB Y2 | $\square$ |
| With "hoist-long travel" symbols, XKB Y3 | $\square$ |

With specific engraved text, $\boldsymbol{X K B}$ Y1001
(clearly state the text on the scheme below)
Left-hand operated unit
$\triangle$ If the scheme is not defined, all $\boldsymbol{X} \boldsymbol{K} \boldsymbol{B} \boldsymbol{E}$ controllers will be supplied with the standard scheme as used for XKB A.

Scheme 1:4 contacts per movement (viewed from above)
Orientation locater


Scheme 2: 4 contacts + 1 zero (centre) position contact per movement (viewed from above)
Orientation locater


[^1]
## Controllers

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

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## Requirement

A 2 movement controller:
""oist-long travel".
"Universal" lever gate, limited to 2 "lower" XKB
positions.

## positions <br> Model

With variable composition scheme (customised electrical scheme as shown below)

## Contact blocks

Block with 4 contacts +1 zero (centre) position contact per movement (screw clamp terminals).

## Handle

"Dead man's" type
Type of lever operation on movement $A B$ Unnotched positions, with spring return to zero operation
Type of lever operation on movement $C D$ Notched positions, with spring return to zero operation
Potentiometer adaptation
With adaptation device + potentiometer on movement AB , standard $4700 \Omega$, size 15 , model

Composition of the reference (see page 30252/2)


Electrical scheme for movement AB "hoist"


## Lever gate

In accordance with the half-gates available, sketch and crosshatch the lever's field of movement on the scheme grids below.
In the absence of this information, the controller will be supplied with a "universal" gate.

Electrical scheme for movement CD "long travel"


## Potentiometer adaptation

Cross, the required position on the schemes below.
On movement AB Type/size: XKZ A15047

| On movement CD | Value: 470 |
| :--- | :--- |
| Vape/size: |  |

Value:

## Legend

| Without legend | $\square$ |
| :--- | :--- |
| With blank legend, $\boldsymbol{X K B} \mathbf{Y 1}$ | $\square$ |
| With "traverse-slew" symbols, XKB Y2 | $\square$ |
| With "hoist-long travel" symbols, $\boldsymbol{X K B} \mathbf{Y 3}$ | $\square$ |

Scheme 1:4 contacts per movement (viewed from above)


Orientation locater


[^2]Spring return operation: only 1 contact can be used with spring return at each notch.


[^0]:    (1) Reserved for contact identification in the automation system scheme. It is not possible to mark it on the controller.

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