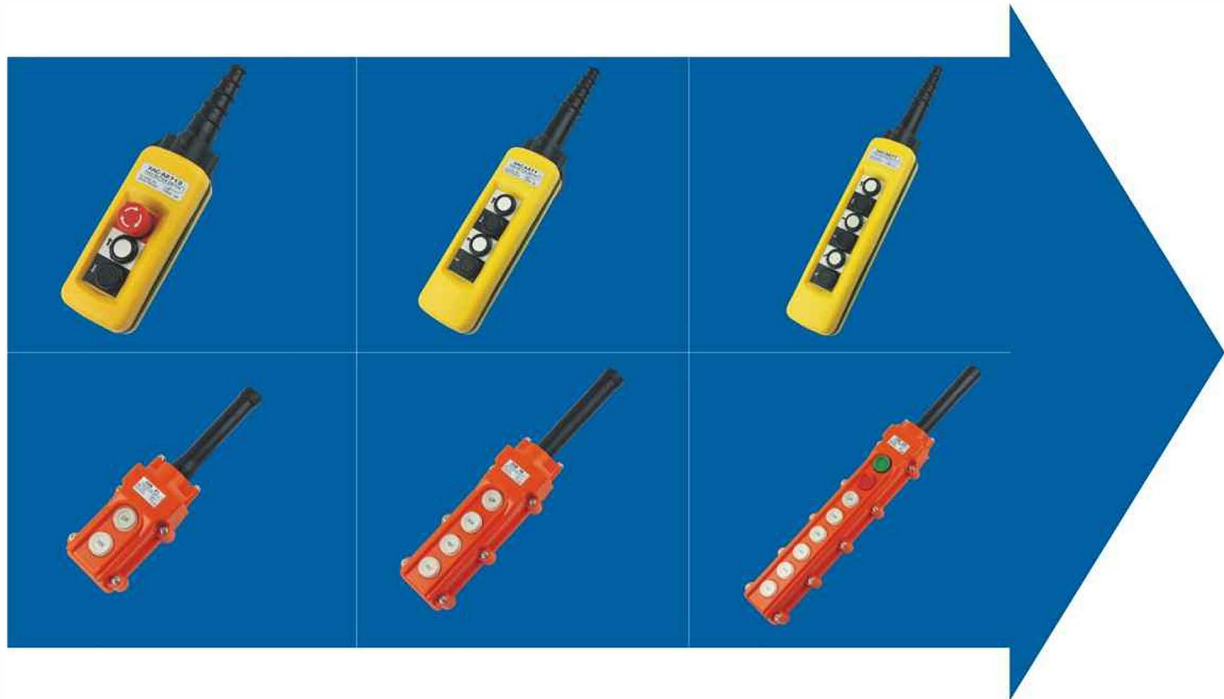




CE RoHS

# XAC , COB

Water-proof lifting button control switch series



# XAC

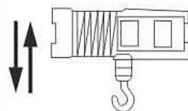
Water-proof lifting button control switch series

## Pendant control stations

|                                           |                                                                                                                           |                                                                                                                                                                                                    |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conforming to standards                   | IEC 947-5-1, EN60947-5-1, IEC 337-1, NFC 63-146, VDE 0660-200                                                             |                                                                                                                                                                                                    |
| Approvals                                 | NEMKO. Special version: UL Listed A600-Q600, CSA600-Q600                                                                  |                                                                                                                                                                                                    |
| Shock resistance                          | 100g conforming to IEC 68-2-27                                                                                            |                                                                                                                                                                                                    |
| Electric chock protection                 | Class II conforming to IEC 536 and NF C 20-030                                                                            |                                                                                                                                                                                                    |
| Degree of protection                      | Op. Cycles                                                                                                                | IP 65 conforming to IEC 539; IP 657 conforming to NFC20-010                                                                                                                                        |
| Mechanical durability                     | 1 million                                                                                                                 |                                                                                                                                                                                                    |
| Enclosure                                 | A                                                                                                                         | Double insulated polypropylene, coloured yellow throughout                                                                                                                                         |
| Thermal current(Ithe)                     | V                                                                                                                         | 10                                                                                                                                                                                                 |
| Rated insulation voltage(ui)              | ZB2-BE●●●●,XEN-G●●●●,XAC-S●●●●:600, degree of pollution 3, XEN-T●●●●: 400, degree of pollution 3, conforming to IEC 947-1 |                                                                                                                                                                                                    |
| Rated impulse withstand voltage(u imp) kV | 6 conforming to IEC 947-1                                                                                                 |                                                                                                                                                                                                    |
| Positive operation                        | Mushroom head pushbutton: N/C contact with positive opening operation to IEC 947-5-1 section 3                            |                                                                                                                                                                                                    |
| Contact operation                         | N/C of N/O slow break                                                                                                     |                                                                                                                                                                                                    |
| Terminal referencing                      | Conforming to CENELEC EN 50013                                                                                            |                                                                                                                                                                                                    |
| Short-circuit protection                  | 10A cartridge fuse type gG(gl)                                                                                            |                                                                                                                                                                                                    |
| Cabling                                   | mm²                                                                                                                       | Screw and captive cable clamp terminals. Capacity: min.1x0.5, max.,with or without cable end:2x1.5 or 1x2.5mm 2.6.3mm faston connectors (on request), please consult your Regional customer centre |



XAC-A2713

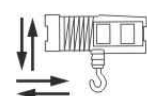


| Description                                                                                     | Contact blocks and scheme per direction for "Emergency stop"                                                                                                                                                | Reference |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 2 mechanically interlocked                                                                      | ZB2-BE101                                                                                                              | XAC-A271  |
|                                                                                                 | ZB2-BE102 + ZB2-BE101                                                                                                  | XAC-A281  |
| 2 mechanically interlocked + 1 trigger action latching "Emergency stop" Ø 30mm perator ZA2-BS44 | ZB2-BE101  ZB2-BE102              | XAC-A2713 |
|                                                                                                 | ZB2-BE102 + ZB2-BE101  ZB2-BE102  | XAC-A2813 |

| Switch | Circuit diagram | Description | Contact blocks and scheme per direction for "Emergency stop" | Reference |
|--------|-----------------|-------------|--------------------------------------------------------------|-----------|
|--------|-----------------|-------------|--------------------------------------------------------------|-----------|



XAC-A471



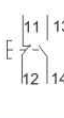
4 mechanically interlocked between pairs

|           |                                                                                     |          |
|-----------|-------------------------------------------------------------------------------------|----------|
| ZB2-BE101 |  | XAC-A471 |
|-----------|-------------------------------------------------------------------------------------|----------|

|                       |                                                                                     |          |
|-----------------------|-------------------------------------------------------------------------------------|----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A481 |
|-----------------------|-------------------------------------------------------------------------------------|----------|

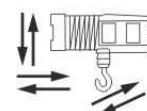
4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS54

|           |                                                                                     |           |
|-----------|-------------------------------------------------------------------------------------|-----------|
| ZB2-BE101 |  | XAC-A4713 |
|-----------|-------------------------------------------------------------------------------------|-----------|

|                       |                                                                                     |           |
|-----------------------|-------------------------------------------------------------------------------------|-----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A4813 |
|-----------------------|-------------------------------------------------------------------------------------|-----------|



XAC-A6713



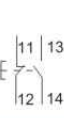
6 mechanically interlocked between pairs

|           |                                                                                     |          |
|-----------|-------------------------------------------------------------------------------------|----------|
| ZB2-BE101 |  | XAC-A671 |
|-----------|-------------------------------------------------------------------------------------|----------|

|                       |                                                                                       |          |
|-----------------------|---------------------------------------------------------------------------------------|----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A681 |
|-----------------------|---------------------------------------------------------------------------------------|----------|

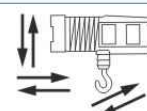
6 mechanically interlocked between pairs +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS44

|           |                                                                                       |           |
|-----------|---------------------------------------------------------------------------------------|-----------|
| ZB2-BE101 |  | XAC-A6713 |
|-----------|---------------------------------------------------------------------------------------|-----------|

|                       |                                                                                       |           |
|-----------------------|---------------------------------------------------------------------------------------|-----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A6813 |
|-----------------------|---------------------------------------------------------------------------------------|-----------|



XAC-A871

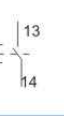


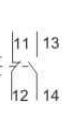
6 mechanically interlocked between pairs

|           |                                                                                       |          |
|-----------|---------------------------------------------------------------------------------------|----------|
| ZB2-BE101 |  | XAC-A871 |
|-----------|---------------------------------------------------------------------------------------|----------|

|                       |                                                                                       |          |
|-----------------------|---------------------------------------------------------------------------------------|----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A881 |
|-----------------------|---------------------------------------------------------------------------------------|----------|

6 mechanically interlocked between pairs +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS44

|           |                                                                                       |           |
|-----------|---------------------------------------------------------------------------------------|-----------|
| ZB2-BE101 |  | XAC-A8713 |
|-----------|---------------------------------------------------------------------------------------|-----------|

|                       |                                                                                       |           |
|-----------------------|---------------------------------------------------------------------------------------|-----------|
| ZB2-BE102 + ZB2-BE101 |  | XAC-A8813 |
|-----------------------|---------------------------------------------------------------------------------------|-----------|

| Switch | Circuit diagram | Description | Contact blocks and scheme per direction for "Emergency stop" | Reference |
|--------|-----------------|-------------|--------------------------------------------------------------|-----------|
|--------|-----------------|-------------|--------------------------------------------------------------|-----------|



XAC-A291



2 mechanically interlocked

1N/C+NO+NO staggered XEN-G1191

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
|  |  |
|-------------------------------------------------------------------------------------|--|

XAC-A291

2 mechanically interlocked + 1 trigger action latching "Emergency stop"  $\phi$  30mm perator ZA2-BS44

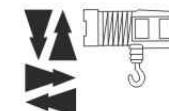
1N/C+NO+NO staggered XEN-G1191

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
|  |  |
|-------------------------------------------------------------------------------------|--|

XAC-A2913



XAC-A491



4 mechanically interlocked between pairs

1N/C+NO+NO staggered XEN-G1191

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
|  |  |
|-------------------------------------------------------------------------------------|--|

XAC-A491

4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS54

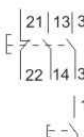
1N/C+NO+NO staggered XEN-G1191

|                                                                                       |  |
|---------------------------------------------------------------------------------------|--|
|  |  |
|---------------------------------------------------------------------------------------|--|

XAC-A4913

4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS54

1N/C+NO+NO staggered(a) XEN-G1191 1N/C102(b)

|                                                                                       |  |
|---------------------------------------------------------------------------------------|--|
|  |  |
|---------------------------------------------------------------------------------------|--|

XAC-A4923



XAC-A691



6 mechanically interlocked

1N/C+NO+NO staggered XEN-G1191

|                                                                                       |  |
|---------------------------------------------------------------------------------------|--|
|  |  |
|---------------------------------------------------------------------------------------|--|

XAC-A691

6 mechanically interlocked +1 trigger action latching "Emergency stop"  $\phi$  40mm operator ZA2-BS44

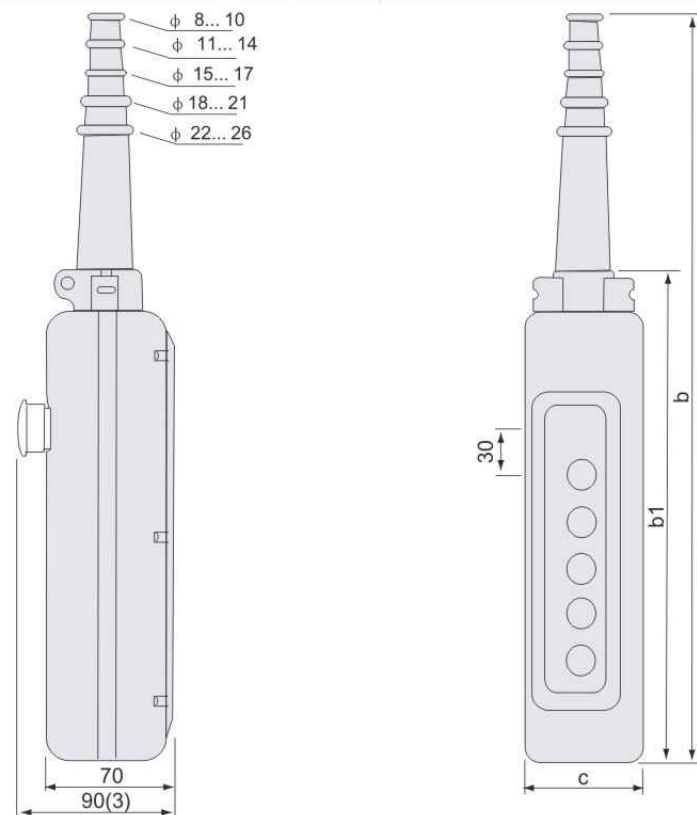
1N/C+NO+NO staggered XEN-G1191

|                                                                                       |  |
|---------------------------------------------------------------------------------------|--|
|  |  |
|---------------------------------------------------------------------------------------|--|

XAC-A6913



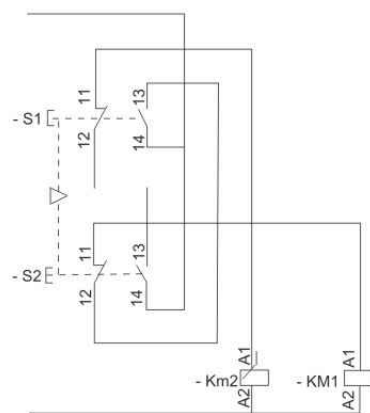
### XAC-A pendant stations for control circuits



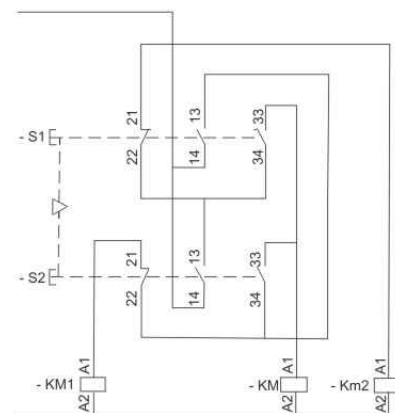
| Number of ways | 2   | 3   | 4   | 6   | 8   | 12  |
|----------------|-----|-----|-----|-----|-----|-----|
| b              | 314 | 314 | 440 | 500 | 560 | 680 |
| b1             | 190 | 190 | 250 | 310 | 370 | 490 |
| c              | 80  | 80  | 80  | 80  | 80  | 92  |

- (1)For 2 and 3-way XAC-A stations
- (2)For 4 or 4 of 8-way XAC-A stations
- (3)With mushroom head operator

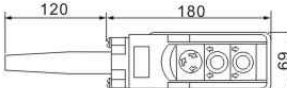
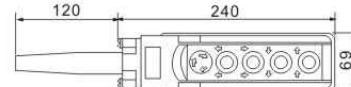
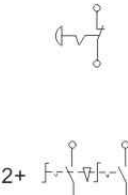
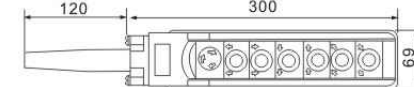
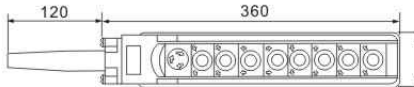
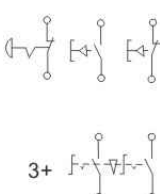
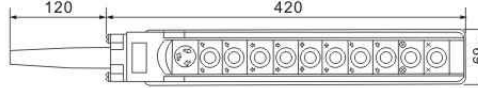
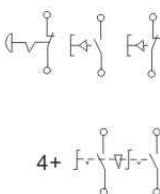
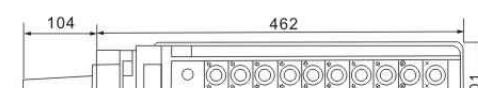
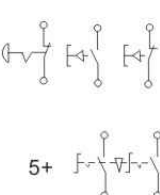
For control of single-speed reversing motor  
(Contact blocks ZB2-BE101+ZB2-BE102)

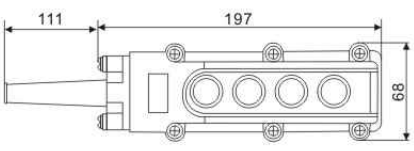
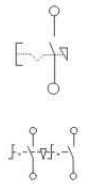
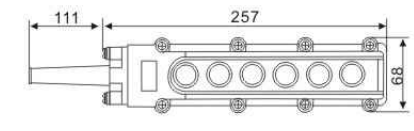
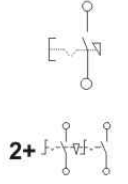
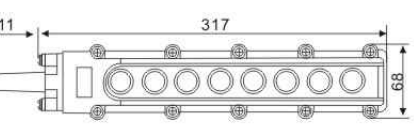
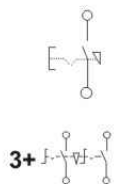
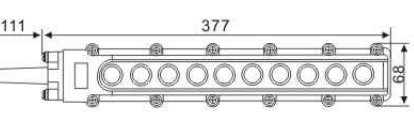
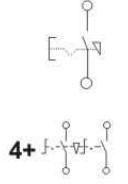


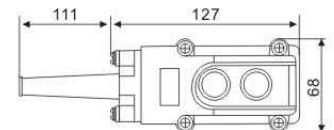
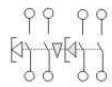
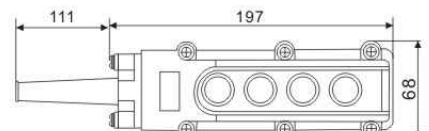
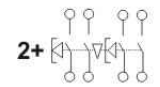
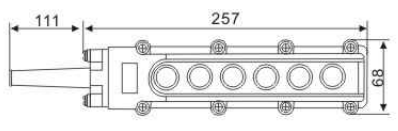
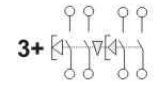
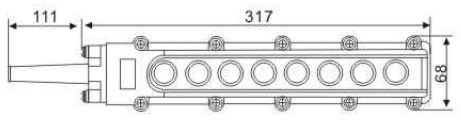
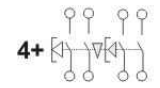
For control of single-speed reversing motor  
(Contact blocks XEN-G1191)



KM: high speed contactor

| Switch                                                                                           | Circuit diagram                                                                       | Description                                                                                                                   | Circuit                                                                               | Type    |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|
| <br>COB-61C   |    | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off one on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A   |    | COB-61C |
| <br>COB-62C   |    | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off three on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A |    | COB-62C |
| <br>COB-63C  |  | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off five on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A  |   | COB-63C |
| <br>COB-64C |  | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off seven on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A |  | COB-64C |
| <br>COB-65C |  | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off nine on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A  |  | COB-65C |
| <br>COB-66C |  | Push lock revolve<br>Urgent stop<br>button;one off<br>(one off nine on)<br>Ui:500V<br>Ith:10A<br>AC-15<br>500V~2A<br>250V~2A  |  | COB-66C |

| Switch                                                                                             | Circuit diagram                                                                     | Description                                                                                                                                                                  | Circuit                                                                                              | Type |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------|
|  <p>COB-61A</p>   |    | <p>Normal-on and self-lock, reset is driven by off.<br/>Two buttons inter lock, self-reset, one couple normal-on-off<br/>Ui:500V Ith:5A AC-15<br/>500V~2A<br/>250V~2A</p>    |  <p>COB-61A</p>   |      |
|  <p>COB-62A</p>  |   | <p>Normal-on and self-lock, reset is driven by off.<br/>Two buttons inter lock, self-reset, two couples normal-on-off<br/>Ui:500V Ith:5A AC-15<br/>500V~2A<br/>250V~2A</p>   |  <p>COB-62A</p>  |      |
|  <p>COB-63A</p> |  | <p>Normal-on and self-lock, reset is driven by off.<br/>Two buttons inter lock, self-reset, three couples normal-on-off<br/>Ui:500V Ith:5A AC-15<br/>500V~2A<br/>250V~2A</p> |  <p>COB-63A</p> |      |
|  <p>COB-64A</p> |  | <p>Normal-on and self-lock, reset is driven by off.<br/>Two buttons inter lock, self-reset, four couples normal-on-off<br/>Ui:500V Ith:5A AC-15<br/>500V~2A<br/>250V~2A</p>  |  <p>COB-64A</p> |      |

| Switch                                                                                              | Circuit diagram                                                                       | Description                                                                              | Circuit                                                                                             | Type |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------|
|  <p>COB-61</p>   |    | <p>Normal-on and normal-off<br/>Ui:500V<br/>Ith:5A<br/>AC-15<br/>220V-2A<br/>500V-2A</p> |  <p>COB-61</p>   |      |
|  <p>COB-62</p>  |   | <p>Normal-on and normal-off<br/>Ui:500V<br/>Ith:5A<br/>AC-15<br/>220V-2A<br/>500V-2A</p> |  <p>COB-62</p>   |      |
|  <p>COB-63</p> |  | <p>Normal-on and normal-off<br/>Ui:500V<br/>Ith:5A<br/>AC-15<br/>220V-2A<br/>500V-2A</p> |  <p>COB-63</p> |      |
|  <p>COB-64</p> |  | <p>Normal-on and normal-off<br/>Ui:500V<br/>Ith:5A<br/>AC-15<br/>220V-2A<br/>500V-2A</p> |  <p>COB-64</p> |      |