

# Control and signalling units

## The essential guide



# Optimise the creation of your dialogue solutions

## Welcome to the Simply Smart\* world compliments of Telemecanique



Telemecanique, the world leader for control and signalling components, offers you its ranges of: pushbuttons, switches and pilot lights, beacons and indicator banks (including audible units) and components for hoisting applications. Unequalled and of high quality, it is the largest offer on the market. It **intelligently** adapts to all types of applications in the industrial, building, tertiary and infrastructure sectors.



■ **Openness:** in perfect synergy with other Telemecanique equipment, this offer optimises the creation of your dialogue solutions.



■ **Simplicity:** the clip together components ensure simple and secure assembly.

■ **Ingenuity:** LED technology for all signalling functions; "Superbright" LED offer for applications requiring a high level of visibility.

■ **Robustness:** mechanical performance much higher than standard requirements.

■ **Flexibility:** of modular construction, the products evolve with the automation system.

■ **Compactness:** the overall dimensions are the smallest on the market.



## Control and signalling units The essential guide

*A selection of the most popular selling products enabling you to quickly locate the most appropriate solution for your application.*

\* **Simply Smart** : more ingenuity and intelligence for continually improving ease of use

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(1):

| Voltage                 | Letter (●) |
|-------------------------|------------|
| 12...24 V AC/DC (15 mA) | B          |
| 48...120 V AC (25 mA)   | G          |
| 230...240 V AC (25 mA)  | M          |



### Illuminated pushbuttons

|                             |                                   |  |
|-----------------------------|-----------------------------------|--|
| <b>Type of head</b>         |                                   | <b>Flush push</b>  |
| <b>Shape of head</b>        |                                   | rectangular (2)  |
| <b>Degree of protection</b> |                                   | IP 65 / Nema 4, 4X, 13 / Class II  |
| <b>Mounting (mm)</b>        | panel cut-out<br>mounting centres | $\varnothing 16.2^{+0.2}_0$<br>24 x 18 with rectangular head, 18 x 18 with square or circular head |
| <b>Dimensions (mm)</b>      | W x H x D (below head)            | 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head                      |
| <b>Connection (3)</b>       |                                   | Tags for 2.8 x 0.5 Faston connectors or for soldering  |

### Type of push

|            |           | Complete products | Products for user assembly |                     |                |                |
|------------|-----------|-------------------|----------------------------|---------------------|----------------|----------------|
|            |           | 12 ... 24 V AC/DC |                            |                     |                |                |
| References | white     | N/O               | <b>XB6 DW1B1B</b>          | <b>ZB6 E●1B (1)</b> | <b>ZB6 Z1B</b> | <b>ZB6 DW1</b> |
|            |           | N/C + N/O         | <b>XB6 DW1B5B</b>          | <b>ZB6 E●1B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DW1</b> |
|            | green     | N/O               | <b>XB6 DW3B1B</b>          | <b>ZB6 E●3B (1)</b> | <b>ZB6 Z1B</b> | <b>ZB6 DW3</b> |
|            |           | N/C + N/O         | <b>XB6 DW3B5B</b>          | <b>ZB6 E●3B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DW3</b> |
|            | red       | N/C               | <b>XB6 DW4B2B</b>          | <b>ZB6 E●4B (1)</b> | <b>ZB6 Z2B</b> | <b>ZB6 DW4</b> |
|            |           | N/C + N/O         | <b>XB6 DW4B5B</b>          | <b>ZB6 E●4B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DW4</b> |
| yellow     | N/O       | –                 | <b>ZB6 E●5B (1)</b>        | <b>ZB6 Z1B</b>      | <b>ZB6 DW5</b> |                |
|            | N/C + N/O | <b>XB6 DW5B5B</b> | <b>ZB6 E●5B (1)</b>        | <b>ZB6 Z5B</b>      | <b>ZB6 DW5</b> |                |

### Type of push

|            |           | Latching  |                     |                     |                |                |
|------------|-----------|-----------|---------------------|---------------------|----------------|----------------|
| References | white     | N/O       | –                   | <b>ZB6 E●1B (1)</b> | <b>ZB6 Z1B</b> | <b>ZB6 DF1</b> |
|            |           | N/C + N/O | <b>XB6 DF1B5B</b>   | <b>ZB6 E●1B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DF1</b> |
|            | green     | N/O       | <b>XB6 DF3B1B</b>   | <b>ZB6 E●3B (1)</b> | <b>ZB6 Z1B</b> | <b>ZB6 DF3</b> |
|            |           | N/C + N/O | <b>XB6 DF3B5B</b>   | <b>ZB6 E●3B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DF3</b> |
|            | red       | N/C       | <b>XB6 DF4B2B</b>   | <b>ZB6 E●4B (1)</b> | <b>ZB6 Z2B</b> | <b>ZB6 DF4</b> |
|            |           | N/C + N/O | <b>XB6 DF4B5B</b>   | <b>ZB6 E●4B (1)</b> | <b>ZB6 Z5B</b> | <b>ZB6 DF4</b> |
| yellow     | N/O       | –         | <b>ZB6 E●5B (1)</b> | <b>ZB6 Z1B</b>      | <b>ZB6 DF5</b> |                |
|            | N/C + N/O | –         | <b>ZB6 E●5B (1)</b> | <b>ZB6 Z5B</b>      | <b>ZB6 DF5</b> |                |



### Pilot lights

|                             |                                   |  |
|-----------------------------|-----------------------------------|--|
| <b>Type of head</b>         |                                   | <b>Smooth lens cap</b>   |
| <b>Shape of head</b>        |                                   | rectangular (2)  |
| <b>Degree of protection</b> |                                   | IP 65 / Nema 4, 4X, 13 / Class II  |
| <b>Mounting (mm)</b>        | panel cut-out<br>mounting centres | $\varnothing 16.2^{+0.2}_0$<br>24 x 18 with rectangular head, 18 x 18 with square or circular head |
| <b>Dimensions (mm)</b>      | W x H x D (below head)            | 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head                      |
| <b>Connection (3)</b>       |                                   | Tags for 2.8 x 0.5 Faston connectors or for soldering  |

|            |        | Complete products | Products for user assembly |                |
|------------|--------|-------------------|----------------------------|----------------|
|            |        | 12 ... 24 V AC/DC |                            |                |
| References | white  | <b>XB6 DV1BB</b>  | <b>ZB6 E●1B (1)</b>        | <b>ZB6 DV1</b> |
|            | green  | <b>XB6 DV3BB</b>  | <b>ZB6 E●3B (1)</b>        | <b>ZB6 DV3</b> |
|            | red    | <b>XB6 DV4BB</b>  | <b>ZB6 E●4B (1)</b>        | <b>ZB6 DV4</b> |
|            | yellow | <b>XB6 DV5BB</b>  | <b>ZB6 E●5B (1)</b>        | <b>ZB6 DV5</b> |
|            | blue   | –                 | <b>ZB6 E●6B (1)</b>        | <b>ZB6 DV6</b> |

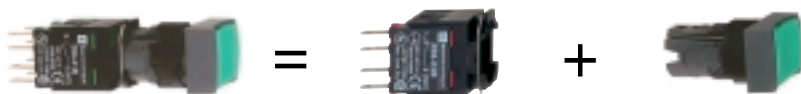
(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

(2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DW1B1B becomes XB6 CW1B1B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DW1B1B becomes XB6 AW1B1B).

(3) Alternative connection: 1 x 0.5 pins for printed circuit boards.

## Contact functions



| Pushbuttons          |                        |  |   |                                   |                |                |
|----------------------|------------------------|--|---|-----------------------------------|----------------|----------------|
| Type of head         |                        |  | <b>Flush push</b>   |                                   |                |                |
| Shape of head        |                        |  | rectangular (2)   |                                   |                |                |
| Degree of protection |                        |  | IP 65 / Nema 4, 4X, 13 / Class II   |                                   |                |                |
| Mounting (mm)        | panel cut-out          |  | $\varnothing 16.2^{+0.2}_0$   |                                   |                |                |
|                      | mounting centres       |  | 24 x 18 with rectangular head, 18 x 18 with square or circular head           |                                   |                |                |
| Dimensions (mm)      | W x H x D (below head) |  | 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head |                                   |                |                |
| Connection (3)       |                        |  | Tags for 2.8 x 0.5 Faston connectors or for soldering                         |                                   |                |                |
| Type of push         |                        |  | Spring return   |                                   |                |                |
|                      |                        |  | <b>Complete products</b>  | <b>Products for user assembly</b> |                |                |
|                      |                        |  |   |                                   |                |                |
| References           | white                  |  | N/O   | <b>XB6 DA11B</b>                  | <b>ZB6 Z1B</b> | <b>ZB6 DA1</b> |
|                      |                        |  | N/C + N/O   | <b>XB6 DA15B</b>                  | <b>ZB6 Z5B</b> | <b>ZB6 DA1</b> |
|                      | black                  |  | N/O   | –                                 | <b>ZB6 Z1B</b> | <b>ZB6 DA2</b> |
|                      |                        |  | N/C + N/O   | <b>XB6 DA25B</b>                  | <b>ZB6 Z5B</b> | <b>ZB6 DA2</b> |
|                      | green                  |  | N/O   | <b>XB6 DA31B</b>                  | <b>ZB6 Z2B</b> | <b>ZB6 DA3</b> |
|                      |                        |  | N/C + N/O   | <b>XB6 DA35B</b>                  | <b>ZB6 Z5B</b> | <b>ZB6 DA3</b> |
|                      | red                    |  | N/O   | –                                 | <b>ZB6 Z1B</b> | <b>ZB6 DA4</b> |
|                      |                        |  | N/C + N/O   | <b>XB6 DA45B</b>                  | <b>ZB6 Z5B</b> | <b>ZB6 DA4</b> |

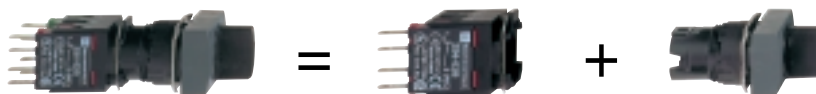


| Ø 30 mushroom head Emergency stop pushbuttons |     |  |                               |                                   |                |                |                  |
|---|-----|--|-------------------------------|-----------------------------------|----------------|----------------|------------------|
| Type of head                                  |     |  | <b>Trigger action</b>         |                                   |                |                |                  |
| Shape of head                                 |     |  | cylindrical                   |                                   |                |                |                  |
| Type of push                                  |     |  | <b>Turn to release</b>        |                                   |                |                |                  |
|   |     |  | <b>Complete products</b>      | <b>Products for user assembly</b> |                |                |                  |
|   |     |  |                               |                                   |                |                |                  |
| References                                    | red |  | 2 N/C + 1 N/O                 | <b>XB6 AS8349B</b>                | <b>ZB6 E2B</b> | <b>ZB6 Z5B</b> | <b>ZB6 AS834</b> |
| Type of push                                  |     |  | <b>Key release, Ronis 200</b> |                                   |                |                |                  |
| References                                    | red |  | 2 N/C + 1 N/O                 | <b>XB6 AS9349B</b>                | <b>ZB6 E2B</b> | <b>ZB6 Z5B</b> | <b>ZB6 AS934</b> |

(2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DA11B becomes XB6 CA11B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DA11B becomes XB6 AA11B).

(3) Alternative connection: 1 x 0.5 pins for printed circuit boards.



### Selector switches and key switches

|                             |                                   |   |
|-----------------------------|-----------------------------------|---|
| <b>Type of head</b>         |                                   | <b>Black handle</b>   |
| <b>Shape of head</b>        |                                   | rectangular (2)   |
| <b>Degree of protection</b> |                                   | IP 65 / Nema 4, 4X, 13 / Class II (except key switches)             |
| <b>Mounting (mm)</b>        | panel cut-out<br>mounting centres | Ø 16.2 <sup>+0.2</sup> <sub>0</sub>                                 |
| <b>Dimensions (mm)</b>      | W x H x D (below head)            | 24 x 18 with rectangular head, 18 x 18 with square or circular head |
| <b>Connection (3)</b>       |                                   | Tags for 2.8 x 0.5 Faston connectors or for soldering               |

|                                     |           |  |
|-------------------------------------|-----------|--|
| <b>Type of operator</b>             |           | <b>Black handle</b>                                  |
|                                     |           | <b>Complete products</b>                             |
|                                     |           | <b>Products for user assembly</b>                    |
| <b>Number and type of positions</b> |           | <b>2 positions</b>                                   |
| <b>References</b>                   | N/O       | <b>2 positions</b> stay put<br>XB6 DD221B            |
|                                     | N/C + N/O | ZB6 Z1B   ZB6 DD22   ZB6 Z5B   ZB6 DD24              |
| <b>Number and type of positions</b> |           | <b>2 positions</b> spring return to centre           |
| <b>References</b>                   | N/O       | <b>3 positions</b>                                   |
|                                     |           | <b>3 positions</b> stay put                          |
|                                     |           | <b>3 positions</b> spring return to centre           |
|                                     |           | XB6 DD235B   ZB6 Z5B   ZB6 DD23   ZB6 Z5B   ZB6 DD25 |



|                                     |           |   |
|-------------------------------------|-----------|---|
| <b>Type of operator</b>             |           | <b>Ronis key, n° 200</b>                          |
|                                     |           | <b>Complete products</b>                          |
|                                     |           | <b>Products for user assembly</b>                 |
| <b>Number and type of positions</b> |           | <b>2 positions</b>                                |
| <b>References</b>                   | N/C + N/O | <b>2 positions</b> stay put<br>XB6 DGC5B          |
|                                     |           | ZB6 Z5B   ZB6 DGC   ZB6 Z5B   ZB6 DGB             |
| <b>Number and type of positions</b> |           | <b>2 positions</b> spring return to centre        |
| <b>References</b>                   | N/C + N/O | <b>3 positions</b>                                |
|                                     |           | <b>3 positions</b> stay put                       |
|                                     |           | <b>3 positions</b> spring return to centre        |
|                                     |           | XB6 DGH5B   ZB6 Z5B   ZB6 DGH   ZB6 Z5B   ZB6 DGS |

(1):

| Voltage                 | Letter (●) |
|-------------------------|------------|
| 12...24 V AC/DC (15 mA) | B          |
| 48...120 V AC (25 mA)   | G          |
| 230...240 V AC (25 mA)  | M          |



### Illuminated selector switches

|                                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| <b>Type of operator</b>             |                                   | <b>Coloured handle</b>   |
|                                     | <b>Products for user assembly</b> |  |
| <b>Number and type of positions</b> |                                   | <b>2 positions</b>   |
| <b>References</b>                   | white ● N/C + N/O                 | <b>2 positions</b> stay put<br>ZB6 E●1B (1)   ZB6 Z5B   ZB6 DD02 |
|                                     | green ● N/C + N/O                 | <b>3 positions</b>   |
|                                     | red ● N/C + N/O                   | stay put<br>ZB6 DD03   ZB6 DD03   ZB6 YK1                        |
|                                     |                                   | ZB6 DD03   ZB6 YK3   |
|                                     |                                   | ZB6 YK4  |

(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

(2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DD221B becomes XB6 CD221B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DD221B becomes XB6 AD221B).

(3) Alternative connection: 1 x 0.5 pins for printed circuit boards.

# LED pilot lights Ø 8 and 12

(1):

| Voltage      | Number (●) |
|--------------|------------|
| 5 V (25 mA)  | 1          |
| 12 V (18 mA) | 2          |
| 24 V (18 mA) | 3          |
| 48 V (10 mA) | 4          |



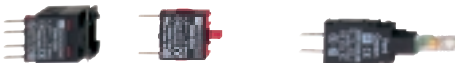
| LED pilot lights     |                        | With black bezel           | With integral lens cap |                          |
|----------------------|------------------------|----------------------------|------------------------|--------------------------|
| Type of head         |                        | Protruding LED, Ø 8 mm     | Covered LED, Ø 8 mm    | Covered LED, Ø 12 mm     |
| Degree of protection |                        | IP 40, IP 65 with seal (2) |                        |                          |
| Mounting (mm)        | panel cut-out          | Ø 8.2 mm                   | Ø 8.2 mm               | Ø 12.2 mm                |
|                      | mounting centres       | 12.5 x 12.5 mm             | 10.5 x 10.5 mm         | 16.5 x 16.5 mm           |
| Dimensions (mm)      | Ø x Depth (below head) | Ø 12 x 32                  | Ø 10 x 34              | Ø 16 x 45                |
| Connection           |                        | Tags (3)                   | Tags (3)               | Threaded connectors      |
| References (1)       | green ●                | <b>XVL A1●3</b>            | <b>XVL A2●3</b>        | <b>XVL A3●3</b>          |
|                      | red ●                  | <b>XVL A1●4</b>            | <b>XVL A2●4</b>        | <b>XVL A3●4</b>          |
|                      | yellow ●               | <b>XVL A1●5</b>            | <b>XVL A2●5</b>        | <b>XVL A3●5</b>          |
| Tightening key       |                        | For Ø 8 mm pilot lights    |                        | For Ø 12 mm pilot lights |
| References           |                        | XVL X08                    |                        | XVL X12                  |

(1) Basic reference, to be completed by the number 1, 2, 3 or 4 indicating the required voltage. See voltage table above.

(2) For an IP 65 degree of protection, include the seals: XVL Z911 for pilot lights XVL A1●● and XVL A2●●; XVL Z912 for pilot lights XVL A3●●.

(3) Tags for 2.8 x 0.5 Faston connectors or for soldering.

## Sub-assemblies & accessories for Ø 16 plastic bezel control and signalling units



| Sub-assemblies   | Bodies for pushbuttons and selector switches |                          |                | Bodies for pilot lights |                 |              |                 |
|--|--|--------------------------|----------------|-------------------------|-----------------|--------------|-----------------|
| Rated operational characteristics, AC-15: Ue = 240 V and Ie = 1.5 A or Ue = 120 V and Ie = 3 A<br>Positive operation of contacts conforming to IEC/EN 60947-5-1: N/C contacts with positive opening operation, positive opening force 20 N |  |                          |                | Consumption             |                 |              |                 |
|  |  |                          |                | 15 mA                   | 12...24 V AC/DC |              |                 |
|  |  |                          |                | 25 mA                   | 48...120 V AC   |              |                 |
|  |  |                          |                | 25 mA                   | 230...240 V AC  |              |                 |
|  | Type of contact                              | Fixing collar + contacts | Contacts       | Pilot light bodies      | 12 ... 24 V     | 48 ... 120 V | 230 ... 240 V   |
| References   | N/O  | ZB6 Z1B                  | <b>ZB6 E1B</b> | White ●                 | <b>ZB6 EB1B</b> | ZB6 EG1B     | <b>ZB6 EM1B</b> |
|  | N/C  | ZB6 Z2B                  | <b>ZB6 E2B</b> | Green ●                 | <b>ZB6 EB3B</b> | ZB6 EG3B     | <b>ZB6 EM3B</b> |
|  | 2 N/O  | <b>ZB6 Z3B</b>           | –              | Red ●                   | <b>ZB6 EB4B</b> | ZB6 EG4B     | <b>ZB6 EM4B</b> |
|  | 2 N/C  | ZB6 Z4B                  | –              | Yellow ●                | ZB6 EB5B        | ZB6 EG5B     | ZB6 EM5B        |
|  | N/O + N/C                                    | <b>ZB6 Z5B</b>           | –              | Blue ●                  | ZB6 EB6B        | ZB6 EG6B     | ZB6 EM6B        |

### Accessories

| Legend holders   | 24 x 28 mm (8 x 21 mm legend)                   |                                      |                  | 24 x 36 mm (16 x 21 mm legend) |                                       |                 |              |
|--|---|--------------------------------------|------------------|--------------------------------|---------------------------------------|-----------------|--------------|
| Blank legend   | Background colour                               | without legend                       | yellow or white  | black or red                   | without legend                        | yellow or white | black or red |
| References (10)*   |   | <b>ZB6 YD20</b>                      | <b>ZB6 YD21</b>  | ZB6 YD22                       | ZB6 YD30                              | ZB6 YD31        | ZB6 YD32     |
| Blank legends for legend holders   |   | 8 x 21 mm (24 x 28 mm legend holder) |                  |                                | 16 x 21 mm (24 x 36 mm legend holder) |                 |              |
|  | Background colour                               | –                                    | yellow or white  | black or red                   | –                                     | yellow or white | black or red |
| References (20)*   |   | –                                    | <b>ZB6 Y1001</b> | ZB6 Y2001                      | –                                     | ZB6 Y4001       | ZB6 Y3001    |
| <b>Ø 45 mm yellow legend for mushroom head Emergency stop pushbutton</b> |   |                                      |                  |                                |                                       |                 |              |
|  | Marking   | Blank, for engraving                 |                  | EMERGENCY STOP                 | ARRET D'URGENCE                       |                 |              |
| References   |   | <b>ZB6 Y7001</b>                     |                  | <b>ZB6 Y7330</b>               | ZB6 Y7130                             |                 |              |
|  | Body/fixing collar                              | Plate                                |                  | Tightening tool                | Dismantling tool                      |                 |              |
|  |   | anti-rotation                        |                  | and slackening, for fixing nut | for removal of contact blocks         |                 |              |
| References   | ZB6 Y009 (10)*                                  | ZB6 Y003 (10)*                       |                  | ZB6 Y905 (2)*                  | ZB6 Y018 (5)*                         |                 |              |
|  | Protective shutter for pushbuttons and switches |                                      |                  | Connector                      | Blanking plug                         |                 |              |
|  | for rectangular heads                           | for circular and square heads        |                  | Faston, female                 | IP 65                                 |                 |              |
| References   | ZB6 YD001                                       | <b>ZB6 YA001</b>                     |                  | ZB6 Y004 (100)*                | ZB6 Y005 (10)*                        |                 |              |

\* sold in lots of





| Pushbuttons, spring return |                     |   |                   |            |                                   |                   |            |  |
|----------------------------|---------------------|---|-------------------|------------|-----------------------------------|-------------------|------------|--|
| Type of head               |                     | Chromium plated circular bezel                                |                   |            |                                   |                   |            |  |
| Degree of protection       |                     | IP 65 / Nema 4X, 13 / Class I. (IP 66 for booted pushbuttons) |                   |            |                                   |                   |            |  |
| Mounting (mm)              | panel cut-out       | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)        |                   |            |                                   |                   |            |  |
|                            | mounting centres    | 30 x 40   |                   |            |                                   |                   |            |  |
| Depth (mm)                 | below head          | 43  |                   |            |                                   |                   |            |  |
| Connection (1)             |                     | Screw clamp terminals   |                   |            |                                   |                   |            |  |
| Type of push               |                     | Flush   |                   |            | Flush, booted                     |                   |            |  |
| Unmarked                   | Products            | Complete  | For user assembly |            | Complete                          | For user assembly |            |  |
| References                 | black ● N/O         | XB4 BA21  | ZB4 BZ101         | ZB4 BA2    | XB4 BP21                          | ZB4 BZ101         | ZB4 BP2    |  |
|                            | green ● N/O         | XB4 BA31  | ZB4 BZ101         | ZB4 BA3    | XB4 BP31                          | ZB4 BZ101         | ZB4 BP3    |  |
|                            | red ● N/C           | XB4 BA42  | ZB4 BZ102         | ZB4 BA4    | XB4 BP42                          | ZB4 BZ102         | ZB4 BP4    |  |
|                            | yellow ● N/O        | XB4 BA51  | ZB4 BZ101         | ZB4 BA5    | XB4 BP51                          | ZB4 BZ101         | ZB4 BP5    |  |
|                            | blue ● N/O          | XB4 BA61  | ZB4 BZ101         | ZB4 BA6    | XB4 BP61                          | ZB4 BZ101         | ZB4 BP6    |  |
| Type of push               |                     | Flush   |                   |            | Mushroom head, Ø 40 mm            |                   |            |  |
| With international marking | Products            | Complete  | For user assembly |            | Complete                          | For user assembly |            |  |
| References                 | green I N/O         | XB4 BA3311  | ZB4 BZ101         | ZB4 BA331  | –                                 | –                 | –          |  |
|                            | red O N/C           | –   | –                 | –          | XB4 BA4322                        | ZB4 BZ102         | ZB4 BA432  |  |
| Type of push               |                     | Projecting  |                   |            | Double-headed pushbuttons, booted |                   |            |  |
| Unmarked                   | Products            | Complete  | For user assembly |            | Complete                          | For user assembly |            |  |
| References                 | black ● N/O         | –   | –                 | –          | XB4 BC21                          | ZB4 BZ101         | ZB4 BC2    |  |
|                            | red ● N/C           | XB4 BL42  | ZB4 BZ102         | ZB4 BL4    | –                                 | –                 | –          |  |
| Type of push               |                     | Double-headed pushbuttons                                     |                   |            | Double-headed pushbuttons, booted |                   |            |  |
| Degree of protection       |                     | IP 40   |                   |            | IP 66                             |                   |            |  |
| With international marking | Products            | Complete  | For user assembly |            | Complete                          | For user assembly |            |  |
| References                 | green / I N/C + N/O | XB4 BL845   | ZB4 BZ105         | ZB4 BL8434 | XB4 BL945                         | ZB4 BZ105         | ZB4 BL9434 |  |
|                            | red O               |   |                   |            |                                   |                   |            |  |



| Ø 40 mm mushroom head Emergency stop pushbuttons |                        |                       |                   |          |                             | Trigger action    |           |  |
|--|------------------------|-----------------------|-------------------|----------|-----------------------------|-------------------|-----------|--|
| Type of push                                     |                        | Push-pull (N/C)       |                   |          | Push-pull (N/C + N/O)       |                   |           |  |
| Unmarked   | Products               | Complete              | For user assembly |          | Complete                    | For user assembly |           |  |
| References                                       | red ● N/C or N/C + N/O | XB4 BT42              | ZB4 BZ102         | ZB4 BT4  | XB4 BT845                   | ZB4 BZ105         | ZB4 BT84  |  |
| Type of push                                     |                        | Turn to release (N/C) |                   |          | Turn to release (N/C + N/O) |                   |           |  |
| References                                       | red ● N/C or N/C + N/O | XB4 BS542             | ZB4 BZ102         | ZB4 BS54 | XB4 BS8445                  | ZB4 BZ105         | ZB4 BS844 |  |
| Type of push                                     |                        | Key release (N/C)     |                   |          | Key release (N/C + N/O)     |                   |           |  |
| References                                       | red ● N/C or N/C + N/O | XB4 BS142             | ZB4 BZ102         | ZB4 BS14 | XB4 BS9445                  | ZB4 BZ105         | ZB4 BS944 |  |

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).



## Contact functions



### Selector switches and key switches

|                              |                   |                                       |  |   |   |                          |  |
|------------------------------|-------------------|---------------------------------------|--|---|---|--------------------------|--|
| <b>Type of head</b>          |                   | <b>Chromium plated circular bezel</b> |  |   |   |                          |  |
| Degree of protection         |                   | IP 65 / Nema 4X, 13 / Class I         |  |   |   |                          |  |
| Mounting (mm)                |                   | panel cut-out                         | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended) |   |   |                          |  |
|                              |                   | mounting centres                      | 30 x 40  |   |   |                          |  |
| Depth (mm)                   |                   | below head                            | 43   |   |   |                          |  |
| Connection (1)               |                   | Screw clamp terminals                 |  |   |   |                          |  |
| <b>Type of operator</b>      |                   | <b>Handle</b>                         |  |   |   |                          |  |
| <b>Products</b>              |                   | <b>Complete</b>                       | <b>For user assembly</b>                               |   | <b>Complete</b>                               | <b>For user assembly</b> |  |
|                              |                   |                                       |  |   |   |                          |  |
| Number and type of positions |                   | <b>2 positions</b><br>stay put        | <b>2 positions</b><br>stay put                         | <b>2 positions</b><br>spring return to left   | <b>2 positions</b><br>spring return to left   |                          |  |
| References                   | black ● N/O       | <b>XB4 BD21</b>                       | ZB4 BZ101   ZB4 BD2                                    | <b>XB4 BD41</b>                               | ZB4 BZ101   ZB4 BD4                           |                          |  |
| Number and type of positions |                   | <b>3 positions</b><br>stay put        | <b>3 positions</b><br>stay put                         | <b>3 positions</b><br>spring return to centre | <b>3 positions</b><br>spring return to centre |                          |  |
| References                   | black ● N/O + N/O | <b>XB4 BD33</b>                       | ZB4 BZ103   ZB4 BD3                                    | <b>XB4 BD53</b>                               | ZB4 BZ103   ZB4 BD5                           |                          |  |



|                                  |                   |   |   |                                |                                |                          |  |
|----------------------------------|-------------------|---|---|--------------------------------|--------------------------------|--------------------------|--|
| <b>Type of operator</b>          |                   | <b>Key, n° 455</b>                          |   |                                |                                |                          |  |
| <b>Products</b>                  |                   | <b>Complete</b>                             | <b>For user assembly</b>                    |                                | <b>Complete</b>                | <b>For user assembly</b> |  |
|                                  |                   |   |   |                                |                                |                          |  |
| Number and type of positions (2) |                   | <b>2 positions</b><br>stay put              | <b>2 positions</b><br>stay put              | <b>2 positions</b><br>stay put | <b>2 positions</b><br>stay put |                          |  |
| References                       | black ● N/O       | <b>XB4 BG21</b>                             | ZB4 BZ101   ZB4 BG2                         | <b>XB4 BG41</b>                | ZB4 BZ101   ZB4 BG4            |                          |  |
| Number and type of positions     |                   | <b>2 positions</b><br>spring return to left | <b>2 positions</b><br>spring return to left | <b>3 positions</b><br>stay put | <b>3 positions</b><br>stay put |                          |  |
| References                       | black ● N/O       | <b>XB4 BG61</b>                             | ZB4 BZ101   ZB4 BG6                         | –                              | –                              |                          |  |
|                                  | black ● N/O + N/O | –   | –   | <b>XB4 BG33</b>                | ZB4 BZ103   ZB4 BG3            |                          |  |

## Separate components



### Electrical blocks

#### Single contact blocks

|   |     |  |
|---|-----|--|
| Rated operational characteristics                             |     | AC-15, 240 V - 3 A   |
| Positive operation of contacts conforming to IEC/EN 60947-5-1 |     | All functions incorporating a N/C contact are positive opening operation |
| References (5)*   | N/O | <b>ZBE 101</b>   |
|   | N/C | <b>ZBE 102</b>   |


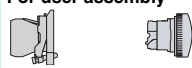





(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

(2) The symbol indicates key withdrawal position.







\* sold in lots of

## Light functions






| Pilot lights         |   |  |                 |                 |   |   |          |
|----------------------|---|--|-----------------|-----------------|---|---|----------|
| Type of head         |          | <b>Circular bezel</b><br><b>Smooth lens cap</b>        |                 |                 |   |   |          |
| Degree of protection |   | IP 65 / Nema 4X, 13 / Class I                          |                 |                 |   |   |          |
| Mounting (mm)        | panel cut-out<br>mounting centres   | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended) |                 |                 |   |   |          |
| Depth                | below head  | 30 x 40<br>43  |                 |                 |   |   |          |
| Connection (1)       |   | Screw clamp terminals                                  |                 |                 |   |   |          |
| Light source         |   | Integral LED   |                 |                 | Direct supply for BA 9s bulb (not included) |   |          |
|                      | <b>Products</b>   | <b>Complete</b>  |                 |                 | <b>Complete</b>                             | <b>For user assembly</b><br> |          |
| Supply voltage       |   | 24 V AC/DC   | 48...120 V AC   | 230...240 V AC  | 250 V max., 2.4 W max.                      |   |          |
| References           | white    | <b>XB4 BVB1</b>  | <b>XB4 BVG1</b> | <b>XB4 BVM1</b> | <b>XB4 BV61</b>                             | ZB4 BV6   | ZB4 BV01 |
|                      | green    | <b>XB4 BVB3</b>  | <b>XB4 BVG3</b> | <b>XB4 BVM3</b> | <b>XB4 BV63</b>                             | ZB4 BV6   | ZB4 BV03 |
|                      | red      | <b>XB4 BVB4</b>  | <b>XB4 BVG4</b> | <b>XB4 BVM4</b> | <b>XB4 BV64</b>                             | ZB4 BV6   | ZB4 BV04 |
|                      | yellow  | <b>XB4 BVB5</b>  | <b>XB4 BVG5</b> | <b>XB4 BVM5</b> | <b>XB4 BV65</b>                             | ZB4 BV6   | ZB4 BV05 |
|                      | blue   | <b>XB4 BVB6</b>  | <b>XB4 BVG6</b> | <b>XB4 BVM6</b> | –   | –   | –        |



| Illuminated pushbuttons and selector switches |  |                   |                   |                   |   |   |          |
|---|--|-------------------|-------------------|-------------------|---|---|----------|
| Type  | Flush push, spring return, illuminated pushbuttons   |                   |                   |                   |   |   |          |
| Light source                                  |  | Integral LED      |                   |                   | Direct supply for BA 9s bulb (not included) |   |          |
|   | <b>Products</b>  | <b>Complete</b>   |                   |                   | <b>Complete</b>                             | <b>For user assembly</b><br> |          |
| Supply voltage                                |  | 24 V AC/DC        | 48...120 V AC     | 230...240 V AC    | 250 V max., 2.4 W max.                      |   |          |
| References                                    | white  N/C + N/O  | <b>XB4 BW31B5</b> | <b>XB4 BW31G5</b> | <b>XB4 BW31M5</b> | <b>XB4 BW3165</b>                           | ZB4 BW065   | ZB4 BW31 |
|   | green  N/C + N/O  | <b>XB4 BW33B5</b> | <b>XB4 BW33G5</b> | <b>XB4 BW33M5</b> | <b>XB4 BW3365</b>                           | ZB4 BW065   | ZB4 BW33 |
|   | red  N/C + N/O    | <b>XB4 BW34B5</b> | <b>XB4 BW34G5</b> | <b>XB4 BW34M5</b> | <b>XB4 BW3465</b>                           | ZB4 BW065   | ZB4 BW34 |
|   | yellow  N/C + N/O | <b>XB4 BW35B5</b> | <b>XB4 BW35G5</b> | <b>XB4 BW35M5</b> | <b>XB4 BW3565</b>                           | ZB4 BW065   | ZB4 BW35 |
|   | blue  N/C + N/O   | <b>XB4 BW36B5</b> | <b>XB4 BW36G5</b> | <b>XB4 BW36M5</b> | –   | –   | –        |



| Type                 | Double-headed pushbuttons with LED pilot light<br>(1 flush green push, 1 projecting red push)        |                   |                   | Illuminated selector switches<br>(2 position stay put) |                    |                    |                    |
|----------------------|--|-------------------|-------------------|--|--------------------|--------------------|--------------------|
| Degree of protection | IP 40  |                   |                   | IP 65  |                    |                    |                    |
| Light source         | Integral LED   |                   |                   | Integral LED   |                    |                    |                    |
|                      | <b>Products</b>  | <b>Complete</b>   |                   |  | <b>Complete</b>    |                    |                    |
| Supply voltage       |  | 24 V AC/DC        | 48...120 V AC     | 230...240 V AC   | 24 V AC/DC         | 48...120 V AC      | 230...240 V AC     |
| References           | green  N/C + N/O  | –                 | –                 | –  | <b>XB4 BK123B5</b> | <b>XB4 BK123G5</b> | <b>XB4 BK123M5</b> |
|                      | red  N/C + N/O    | –                 | –                 | –  | <b>XB4 BK124B5</b> | <b>XB4 BK124G5</b> | <b>XB4 BK124M5</b> |
|                      | yellow  N/C + N/O | <b>XB4 BW84B5</b> | <b>XB4 BW84G5</b> | <b>XB4 BW84M5</b>                                      | <b>XB4 BK125B5</b> | <b>XB4 BK125G5</b> | <b>XB4 BK125M5</b> |

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

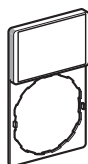
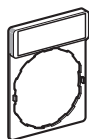
## Separate components and accessories



| Electrical blocks   |  |                |  |            |               |                |                               |        |        |                         |
|---|--|----------------|--|------------|---------------|----------------|-------------------------------|--------|--------|-------------------------|
| Single contact blocks   |  |                | Light blocks with integral LED         |            |               |                | Light block, direct supply    |        |        |                         |
| Rated operational characteristics                             | AC-15, 240 V - 3 A                           |                | Consumption                            |            |               |                |                               |        |        |                         |
|   |  |                | 18 mA                                  | 24 V AC/DC |               |                |                               |        |        |                         |
| Positive operation of contacts conforming to IEC/EN 60947-5-1 | N/C contacts with positive opening operation |                | 14 mA                                  | 120 V AC   |               |                |                               |        |        |                         |
|   |  |                | 14 mA                                  | 240 V AC   |               |                |                               |        |        |                         |
|   |  |                | To combine with heads for integral LED |            |               |                | For BA 9s bulb (not included) |        |        |                         |
| References (5)*   | N/O  | <b>ZBE 101</b> | white                                  | 24 V AC/DC | 48...120 V AC | 230...240 V AC | ZBV B1                        | ZBV G1 | ZBV M1 | ZBV 6                   |
|   | N/C  | <b>ZBE 102</b> | green                                  | ZBV B3     | ZBV G3        | ZBV M3         | ZBV B3                        | ZBV G3 | ZBV M3 | 250 V max., 2.4 W max.  |
|   |  |                | red                                    | ZBV B4     | ZBV G4        | ZBV M4         | ZBV B4                        | ZBV G4 | ZBV M4 | Colour provided by lens |
|   |  |                | yellow                                 | ZBV B5     | ZBV G5        | ZBV M5         | ZBV B5                        | ZBV G5 | ZBV M5 |                         |
|   |  |                | blue                                   | ZBV B6     | ZBV G6        | ZBV M6         | ZBV B6                        | ZBV G6 | ZBV M6 |                         |
|   |  |                |  |            |               |                |                               |        |        |                         |



| Diecast metal enclosures<br>(Zinc alloy, usable depth 49 mm) |                       | 1 vertical row |           |           |           | 2 vertical rows |           |           |
|--|-----------------------|----------------|-----------|-----------|-----------|-----------------|-----------|-----------|
| Number of cut-outs   | Front face dimensions | 1              | 2         | 3         | 4         | 2               | 4         | 6         |
| References   | 80 x 80 mm            | XAP M1201      | –         | –         | –         | XAP M1202       | –         | –         |
|  | 80 x 130 mm           | –              | XAP M2202 | XAP M2203 | –         | –               | XAP M2204 | –         |
|  | 80 x 175 mm           | –              | –         | XAP M3203 | XAP M3204 | –               | –         | XAP M3206 |



| Accessories  |                   |                                 |                |                 |          |                      |          |      |                 |   |
|--|-------------------|---------------------------------|----------------|-----------------|----------|----------------------|----------|------|-----------------|---|
| Legend holders, 30 x 40 mm, for 8 x 27 mm legends          |                   |                                 |                |                 |          |                      |          |      |                 |   |
| References (10)*   | Marking           | Background colour: black or red |                |                 |          |                      |          |      | white or yellow |   |
|  | Blank             | ZBY 2101                        |                |                 |          |                      |          |      | ZBY 4101        |   |
|  | International     | 0 (red background)              | ZBY 2931       | I               | ZBY 2147 | AUTO                 | ZBY 2115 | STOP | ZBY 2304        | – |
|  | English           | OFF                             | ZBY 2312       | ON              | ZBY 2311 | START                | ZBY 2303 | –    | –               | – |
|  | French            | ARRET (red b/grnd)              | ZBY 2104       | ARRET-MARCHE    | ZBY 2166 | MARCHE               | ZBY 2103 | –    | –               | – |
|  | German            | AUS                             | ZBY 2204       | AUS-EIN         | ZBY 2266 | EIN                  | ZBY 2203 | –    | –               | – |
|  | Spanish           | PARADA (red b/grnd)             | ZBY 2404       | PARADA-MARCHA   | ZBY 2466 | MARCHA               | ZBY 2403 | –    | –               | – |
| Legend holders, 30 x 50 mm, for 18 x 27 mm legends         |                   |                                 |                |                 |          |                      |          |      |                 |   |
| References (10)*   | Background colour | black or red                    |                |                 |          |                      |          |      | white or yellow |   |
|  | Blank             | ZBY 6101                        |                |                 |          |                      |          |      | ZBY 6102        |   |
| Ø 60 mm legend for mushroom head Emergency stop pushbutton |                   |                                 |                |                 |          |                      |          |      |                 |   |
| References (10)*   | Background colour | yellow                          |                |                 |          |                      |          |      |                 |   |
|  | Marking           | Blank                           | EMERGENCY STOP | ARRET D'URGENCE | NOT-AUS  | PARADA DE EMERGENCIA |          |      |                 |   |
|  | References        | ZBY 9101                        | ZBY 9330       | ZBY 9130        | ZBY 9230 | ZBY 9430             |          |      |                 |   |

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

\* sold in lots of



| Pushbuttons, spring return |  |  |  |                          |            |                                   |                          |            |
|----------------------------|--|--|--|--------------------------|------------|-----------------------------------|--------------------------|------------|
| <b>Type of head</b>        |  |  | <b>Circular bezel</b>                                  |                          |            |                                   |                          |            |
| Degree of protection       |  | IP 65 / Nema 4X, 13 / Class II. (IP 66 for booted pushbuttons) |  |                          |            |                                   |                          |            |
| Mounting (mm)              |  | panel cut-out  | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended) |                          |            |                                   |                          |            |
|                            |  | mounting centres   | 30 x 40  |                          |            |                                   |                          |            |
| Depth (mm)                 |  | below head   | 43   |                          |            |                                   |                          |            |
| Connection (1)             |  | Screw clamp terminals  |  |                          |            |                                   |                          |            |
| <b>Type of push</b>        |  |  | Flush  |                          |            | Flush, booted                     |                          |            |
| Unmarked                   |  | <b>Products</b>  | <b>Complete</b>  | <b>For user assembly</b> |            | <b>Complete</b>                   | <b>For user assembly</b> |            |
|                            |  |  |  |                          |            |                                   |                          |            |
| References                 |  | black ● N/O  | <b>XB5 AA21</b>  | ZB5 AZ101                | ZB5 AA2    | <b>XB5 AP21</b>                   | ZB5 AZ101                | ZB5 AP2    |
|                            |  | green ● N/O  | <b>XB5 AA31</b>  | ZB5 AZ101                | ZB5 AA3    | <b>XB5 AP31</b>                   | ZB5 AZ101                | ZB5 AP3    |
|                            |  | red ● N/C  | <b>XB5 AA42</b>  | ZB5 AZ102                | ZB5 AA4    | <b>XB5 AP42</b>                   | ZB5 AZ102                | ZB5 AP4    |
|                            |  | yellow ● N/O   | <b>XB5 AA51</b>  | ZB5 AZ101                | ZB5 AA5    | <b>XB5 AP51</b>                   | ZB5 AZ101                | ZB5 AP5    |
|                            |  | blue ● N/O   | <b>XB5 AA61</b>  | ZB5 AZ101                | ZB5 AA6    | <b>XB5 AP61</b>                   | ZB5 AZ101                | ZB5 AP6    |
| <b>Type of push</b>        |  |  | Flush  |                          |            | Mushroom head, Ø 40 mm            |                          |            |
| With international marking |  | <b>Products</b>  | <b>Complete</b>  | <b>For user assembly</b> |            | <b>Complete</b>                   | <b>For user assembly</b> |            |
| References                 |  | green  N/O   | <b>XB5 AA3311</b>                                      | ZB5 AZ101                | ZB5 AA3311 | –                                 | –                        |            |
|                            |  | red  N/C   | –  | –                        | –          | <b>XB5 AA4322</b>                 | ZB5 AZ102                | ZB5 AA4322 |
| <b>Type of push</b>        |  |  | Projecting   |                          |            | Mushroom head, Ø 40 mm            |                          |            |
| Unmarked                   |  | <b>Products</b>  | <b>Complete</b>  | <b>For user assembly</b> |            | <b>Complete</b>                   | <b>For user assembly</b> |            |
|                            |  |  |  |                          |            |                                   |                          |            |
| References                 |  | black ● N/O  | –  | –                        | –          | <b>XB5 AC21</b>                   | ZB5 AZ101                | ZB5 AC2    |
|                            |  | red ● N/C  | <b>XB5 AL42</b>  | ZB5 AZ102                | ZB5 AL4    | –                                 | –                        | –          |
| <b>Type of push</b>        |  |  | Double-headed pushbuttons                              |                          |            | Double-headed pushbuttons, booted |                          |            |
| Degree of protection       |  | IP 40  |  |                          | IP 66      |                                   |                          |            |
| With international marking |  | <b>Products</b>  | <b>Complete</b>  | <b>For user assembly</b> |            | <b>Complete</b>                   | <b>For user assembly</b> |            |
|                            |  |  |  |                          |            |                                   |                          |            |
| References                 |  | green / red   N/C + N/O  | <b>XB5 AL845</b>                                       | ZB5 AZ105                | ZB5 AL8434 | <b>XB5 AL945</b>                  | ZB5 AZ105                | ZB5 AL9434 |



| Ø 40 mm mushroom head Emergency stop pushbuttons |  |                        |                       |                          |          |                             |                          |           |
|--|--|------------------------|-----------------------|--------------------------|----------|-----------------------------|--------------------------|-----------|
| <b>Type of push</b>                              |  |                        | Push-pull (N/C)       |                          |          | Trigger action              |                          |           |
| Unmarked   |  | <b>Products</b>        | <b>Complete</b>       | <b>For user assembly</b> |          | <b>Complete</b>             | <b>For user assembly</b> |           |
|  |  |                        |                       |                          |          |                             |                          |           |
| References                                       |  | red ● N/C or N/C + N/O | <b>XB5 AT42</b>       | ZB5 AZ102                | ZB5 AT4  | <b>XB5 AT845</b>            | ZB5 AZ105                | ZB5 AT84  |
| <b>Type of push</b>                              |  |                        | Turn to release (N/C) |                          |          | Turn to release (N/C + N/O) |                          |           |
| References                                       |  | red ● N/C or N/C + N/O | <b>XB5 AS542</b>      | ZB5 AZ102                | ZB5 AS54 | <b>XB5 AS8445</b>           | ZB5 AZ105                | ZB5 AS844 |
| <b>Type of push</b>                              |  |                        | Key release (N/C)     |                          |          | Key release (N/C + N/O)     |                          |           |
| References                                       |  | red ● N/C or N/C + N/O | <b>XB5 AS142</b>      | ZB5 AZ102                | ZB5 AS14 | <b>XB5 AS9445</b>           | ZB5 AZ105                | ZB5 AS944 |

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

# Contact functions



## Selector switches and key switches

|                                  |                                   |  |                          |   |                          |
|----------------------------------|-----------------------------------|--|--------------------------|---|--------------------------|
| <b>Type of head</b>              |                                   | <b>Circular bezel</b>                                  |                          |   |                          |
| Degree of protection             |                                   | IP 65 / Nema 4X, 13 / Class II                         |                          |   |                          |
| Mounting (mm)                    | panel cut-out<br>mounting centres | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended) |                          |   |                          |
| Depth (mm)                       | below head                        | 30 x 40<br>43  |                          |   |                          |
| Connection (1)                   |                                   | Screw clamp terminals                                  |                          |   |                          |
| <b>Type of operator</b>          |                                   | <b>Handle</b>  |                          |   |                          |
|                                  | <b>Products</b>                   | <b>Complete</b>  | <b>For user assembly</b> | <b>Complete</b>                               | <b>For user assembly</b> |
| Number and type of positions     |                                   | <b>2 positions</b><br>stay put                         |                          | <b>2 positions</b><br>spring return to left   |                          |
| References                       | black ● N/O                       | <b>XB5 AD21</b>  | ZB5 AZ101   ZB5 AD2      | <b>XB5 AD41</b>                               | ZB5 AZ101   ZB5 AD4      |
| Number and type of positions     |                                   | <b>3 positions</b><br>stay put                         |                          | <b>3 positions</b><br>spring return to centre |                          |
| References                       | black ● N/O + N/O                 | <b>XB5 AD33</b>  | ZB5 AZ103   ZB5 AD3      | <b>XB5 AD53</b>                               | ZB5 AZ103   ZB5 AD5      |
| <b>Type of operator</b>          |                                   | <b>Key, n° 455</b>                                     |                          |   |                          |
| Number and type of positions (2) |                                   | <b>2 positions</b><br>stay put                         |                          | <b>2 positions</b><br>stay put                |                          |
| References                       | black ● N/O                       | <b>XB5 AG21</b>  | ZB5 AZ101   ZB5 AG2      | <b>XB5 AG41</b>                               | ZB5 AZ101   ZB5 AG4      |

(2) The symbol indicates key withdrawal position.

# Separate components and accessories

## Electrical blocks

| Single contact blocks |                            | Light blocks with integral LED                    |  |   |  | Light block, direct supply                                |
|-----------------------|----------------------------|---|--|---|--|---|
|                       |                            | To combine with heads for integral LED            |  |   |  | For BA 9s bulb (not included)                             |
| References (5)*       | N/O ZBE 101<br>N/C ZBE 102 | white ●<br>green ●<br>red ●<br>yellow ●<br>blue ● | 24 V AC/DC<br>ZBV B1<br>ZBV B3<br>ZBV B4<br>ZBV B5<br>ZBV B6 | 48...120 V AC<br>ZBV G1<br>ZBV G3<br>ZBV G4<br>ZBV G5<br>ZBV G6 | 230...240 V AC<br>ZBV M1<br>ZBV M3<br>ZBV M4<br>ZBV M5<br>ZBV M6 | 250 V max., 2.4 W max.<br>ZBV6<br>Colour provided by lens |

## Accessories

### Legend holders, 30 x 40 mm, for 8 x 27 mm legends

|                  |                                 |                     |          |               |          |        |          |      |                 |          |
|------------------|---------------------------------|---------------------|----------|---------------|----------|--------|----------|------|-----------------|----------|
| Marking          | Background colour: black or red |                     |          |               |          |        |          |      | white or yellow |          |
| References (10)* | Blank                           | ZBY 2101            |          |               |          |        |          |      |                 | ZBY 4101 |
| References       | International                   | 0 (red background)  | ZBY 2931 | I             | ZBY 2147 | AUTO   | ZBY 2115 | STOP | ZBY 2304        | –        |
|                  | English                         | OFF                 | ZBY 2312 | ON            | ZBY 2311 | START  | ZBY 2303 | –    | –               | –        |
|                  | French                          | ARRET (red b/grnd)  | ZBY 2104 | ARRET-MARCHE  | ZBY 2166 | MARCHE | ZBY 2103 | –    | –               | –        |
|                  | German                          | AUS                 | ZBY 2204 | AUS-EIN       | ZBY 2266 | EIN    | ZBY 2203 | –    | –               | –        |
|                  | Spanish                         | PARADA (red b/grnd) | ZBY 2404 | PARADA-MARCHA | ZBY 2466 | MARCHA | ZBY 2403 | –    | –               | –        |

### Legend holders, 30 x 50 mm, for 18 x 27 mm legends

|                   |              |          |  |  |  |  |  |  |                 |          |
|-------------------|--------------|----------|--|--|--|--|--|--|-----------------|----------|
| Background colour | black or red |          |  |  |  |  |  |  | white or yellow |          |
| References (10)*  | Blank        | ZBY 6101 |  |  |  |  |  |  |                 | ZBY 6102 |









### Ø 60 mm legend for mushroom head Emergency stop pushbutton

|                   |   |                |                 |                   |                      |                                     |  |               |  |
|-------------------|---|----------------|-----------------|-------------------|----------------------|-------------------------------------|--|---------------|--|
| Background colour | yellow                                  |                |                 |                   |                      |                                     |  |               |  |
| Marking           | Blank                                   | EMERGENCY STOP | ARRET D'URGENCE | NOT-AUS           | PARADA DE EMERGENCIA |                                     |  |               |  |
| References        | ZBY 9101                                | ZBY 9330       | ZBY 9130        | ZBY 9230          | ZBY 9430             |                                     |  |               |  |
|                   | <b>Body/fixing collar</b>               |                |                 | <b>Fixing nut</b> |                      | <b>Bezel tool</b>                   |  | <b>Plate</b>  |  |
|                   | for electrical block (contact or light) |                |                 | for head          |                      | for tightening fixing nut ZB5 AZ901 |  | anti-rotation |  |
| References        | ZB5 AZ009 (10)*                         |                |                 | ZB5 AZ901 (10)*   |                      | ZB5 AZ905                           |  | ZB5 AZ902     |  |








(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

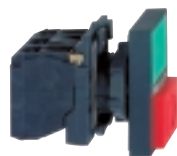
\* sold in lots of






| Pilot lights         |   |  |                 |                 |   |   |          |
|----------------------|---|--|-----------------|-----------------|---|---|----------|
| Type of head         |          | Circular bezel<br>Smooth lens cap                      |                 |                 |   |   |          |
| Degree of protection |   | IP 65 / Nema 4X, 13 / Class II                         |                 |                 |   |   |          |
| Mounting (mm)        | panel cut-out<br>mounting centres   | Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended) |                 |                 |   |   |          |
| Depth                | below head  | 30 x 40  |                 |                 |   |   |          |
| Connection (1)       |   | Screw clamp terminals                                  |                 |                 |   |   |          |
| Light source         |   | Integral LED   |                 |                 | Direct supply for BA 9s bulb (not included)   |   |          |
|                      | <b>Products</b>   | <b>Complete</b>  |                 |                 | <b>Complete</b>   | <b>For user assembly</b>  |          |
|                      |   |  |                 |                 |  |  |          |
| Supply voltage       |   | 24 V AC/DC   | 48...120 V AC   | 230...240 V AC  | 250 V max., 2.4 W max.  |   |          |
| References           | white    | <b>XB5 AVB1</b>  | <b>XB5 AVG1</b> | <b>XB5 AVM1</b> | <b>XB5 AV61</b>   | ZB5 AV6   | ZB5 AV01 |
|                      | green    | <b>XB5 AVB3</b>  | <b>XB5 AVG3</b> | <b>XB5 AVM3</b> | <b>XB5 AV63</b>   | ZB5 AV6   | ZB5 AV03 |
|                      | red      | <b>XB5 AVB4</b>  | <b>XB5 AVG4</b> | <b>XB5 AVM4</b> | <b>XB5 AV64</b>   | ZB5 AV6   | ZB5 AV04 |
|                      | yellow  | <b>XB5 AVB5</b>  | <b>XB5 AVG5</b> | <b>XB5 AVM5</b> | <b>XB5 AV65</b>   | ZB5 AV6   | ZB5 AV05 |
|                      | blue   | <b>XB5 AVB6</b>  | <b>XB5 AVG6</b> | <b>XB5 AVM6</b> | –   | –   | –        |



| Illuminated pushbuttons and selector switches |  |                   |                   |                   |   |   |          |
|---|--|-------------------|-------------------|-------------------|---|---|----------|
| Type  | Flush push, spring return, illuminated pushbuttons   |                   |                   |                   |   |   |          |
| Light source                                  |  | Integral LED      |                   |                   | Direct supply for BA 9s bulb (not included)   |   |          |
|   | <b>Products</b>  | <b>Complete</b>   |                   |                   | <b>Complete</b>   | <b>For user assembly</b>  |          |
|   |  |                   |                   |                   |  |  |          |
| Supply voltage                                |  | 24 V AC/DC        | 48...20 V AC      | 230...240 V AC    | 250 V max., 2.4 W max.  |   |          |
| References                                    | white  N/C + N/O  | <b>XB5 AW31B5</b> | <b>XB5 AW31G5</b> | <b>XB5 AW31M5</b> | <b>XB5 AW3165</b>   | ZB5 AW065   | ZB5 AW31 |
|   | green  N/C + N/O  | <b>XB5 AW33B5</b> | <b>XB5 AW33G5</b> | <b>XB5 AW33M5</b> | <b>XB5 AW3365</b>   | ZB5 AW065   | ZB5 AW33 |
|   | red  N/C + N/O    | <b>XB5 AW34B5</b> | <b>XB5 AW34G5</b> | <b>XB5 AW34M5</b> | <b>XB5 AW3465</b>   | ZB5 AW065   | ZB5 AW34 |
|   | yellow  N/C + N/O | <b>XB5 AW35B5</b> | <b>XB5 AW35G5</b> | <b>XB5 AW35M5</b> | <b>XB5 AW3565</b>   | ZB5 AW065   | ZB5 AW35 |
|   | blue  N/C + N/O   | <b>XB5 AW36B5</b> | <b>XB5 AW36G5</b> | <b>XB5 AW36M5</b> | –   | –   | –        |



| Type                 | Double-headed pushbuttons with LED pilot light<br>(1 flush green push, 1 projecting red push)        |                   |                   | Illuminated selector switches<br>(2 position stay put) |                    |                    |                    |
|----------------------|--|-------------------|-------------------|--|--------------------|--------------------|--------------------|
| Degree of protection | IP 40  |                   |                   | IP 65  |                    |                    |                    |
| Light source         | Integral LED   |                   |                   | Integral LED   |                    |                    |                    |
|                      | <b>Products</b>  | <b>Complete</b>   |                   |  | <b>Complete</b>    |                    |                    |
| Supply voltage       |  | 24 V AC/DC        | 48...120 V AC     | 230...240 V AC   | 24 V AC/DC         | 48...120 V AC      | 230...240 V AC     |
| References           | green  N/C + N/O  | –                 | –                 | –  | <b>XB5 AK123B5</b> | <b>XB5 AK123G5</b> | <b>XB5 AK123M5</b> |
|                      | red  N/C + N/O    | –                 | –                 | –  | <b>XB5 AK124B5</b> | <b>XB5 AK124G5</b> | <b>XB5 AK124M5</b> |
|                      | yellow  N/C + N/O | <b>XB5 AW84B5</b> | <b>XB5 AW84G5</b> | <b>XB5 AW84M5</b>                                      | <b>XB5 AK125B5</b> | <b>XB5 AK125G5</b> | <b>XB5 AK125M5</b> |

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).

Separate components and accessories: see previous page.



### Complete stations with 1 pushbutton, selector switch or key switch

(light grey RAL 7035 base with dark grey RAL 7016 cover)

|  |     |                                   |                 |                      |   |          |          |
|--|-----|-----------------------------------|-----------------|----------------------|---|----------|----------|
| <b>Degree of protection</b>                              |     | IP 65 / Nema 4X and 13 / Class II |                 |                      |   |          |          |
| <b>Dimensions (mm)</b>                                   |     | W x H x D                         |                 |                      |   |          |          |
| <b>Fixing (mm)</b>                                       |     | 2 x Ø4.3 on 54 mm centres         |                 |                      |   |          |          |
| <b>Function</b>  |     | 1 Start or Stop function          |                 |                      | 1 Start-Stop function                               |          |          |
| <b>Marking</b>   |     | On spring return push             |                 |                      | On legend holder and legend below head              |          |          |
| Number and type of pushbutton/selector switch/key switch |     | 1 flush green p/b                 | 1 flush red p/b | 1 projecting red p/b | 1 2 position stay put selector switch or key switch |          |          |
| References   | N/O | I                                 | XAL D102        | –                    | –   | –        |          |
|  |     | Start                             | XAL D103        | –                    | –   | –        |          |
|  | N/C | O - I                             | –               | –                    | –   | XAL D134 | XAL D144 |
|  |     | O                                 | –               | XAL D112             | XAL D115  | –        | –        |



|   |                 |  |  |                              |           |
|---|-----------------|--|--|------------------------------|-----------|
| <b>Function</b>                             |                 | Emergency stop (light grey RAL 7035 base with yellow RAL 1012 cover) |  |                              |           |
| Number and type of mushroom head pushbutton |                 | 1 red Ø 40 head, turn to release                                     |  | 1 red Ø 40 head, key release |           |
| Latching mechanism                          |                 | Trigger action   |  | Standard                     |           |
| References                                  | N/C             | –  |  | XAL K174                     | XAL K184  |
|   | N/C + N/C       | XAL K178F  |  | XAL K174F                    | XAL K184F |
|   | N/C + N/O       | XAL K178E  |  | XAL K174E                    | XAL K184E |
|   | N/C + N/C + N/O | XAL K178G  |  | XAL K174G                    | XAL K184G |



### Complete stations with 2 and 3 pushbuttons or 2 pushbuttons + 1 pilot light


(light grey RAL 7035 base with dark grey RAL 7016 cover)

|   |           |  |   |  |   |  |   |
|---|-----------|--|---|--|---|--|---|
| <b>Dimensions (mm)</b>                    |           | 2-way control stations: 68 x 106 x 62; 3-way control stations: 68 x 136 x 87                             |   |  |   |  |   |
| <b>Fixing (mm)</b>                        |           | 2-way control stations: 2 x Ø4.3 on 54 x 68 centres; 3-way control stations: 2 x Ø4.3 on 54 x 98 centres |   |  |   |  |   |
| <b>Function</b>                           |           | Start-Stop functions   |   |  | 2 functions   | 3 functions  |   |
| <b>Marking</b>                            |           | On spring return push  |   |  |   |  |   |
| Number and type of pushbutton/pilot light |           | 1 flush green p/b<br>1 flush red p/b   | 1 flush green pushbutton<br>1 flush red pushbutton<br>1 pilot light with integral LED (1) | 1 flush white p/b<br>1 flush black p/b | 1 flush white p/b<br>1 flush red p/b<br>1 flush black p/b | 1 flush white p/b<br>1 Ø 30 red mushroom head p/b<br>1 flush black p/b |   |
| References                                | N/O + N/C | I - O  | XAL D213  | XAL D363B                              | XAL D363M   | –  |   |
|   |           | Start - Stop   | XAL D215  | –                                      | –   | –  |   |
|   | N/O + N/O | ↑<br>↓   | –   | –                                      | –   | XAL D222   | – |
|   |           |  | N/O + N/C + N/O   | ↑<br>○<br>↓                            | –   | –  | – |

|                    |  |                         |             |            |  |          |
|--------------------|--|-------------------------|-------------|------------|--|----------|
| <b>Accessories</b> |  | Standard contact blocks |             |            | (1) Light blocks with integral LED, colour red |          |
| Description        |  | N/O contact             | N/C contact | 24 V AC/DC |  | 230 V AC |
| References         |  | ZEN L1111               | ZEN L1121   | ZAL VB4    |  | ZAL VM4  |





| Pushbuttons          |   |  |                                 |  |
|----------------------|---|--|---------------------------------|--|
| Type of head         |  | <b>Flush push</b>  |                                 |  |
| Degree of protection |   | circular   |                                 |  |
| Mounting (mm)        | panel cut-out   | IP 54, class II  |                                 |  |
|                      | mounting centres  | Ø 22.4 (0 +0.1)  |                                 |  |
| Dimensions (mm)      | Ø x Depth (below head)  | 30 (horizontal) x 40 (vertical)  |                                 |  |
| Connection (1)       |   | Ø 29 x 41.5, (Ø 40 x 41.5 for Emergency stop)                              |                                 |  |
|                      |   | Screw clamp terminals, 1 x 0.34 mm <sup>2</sup> to 1 x 1.5 mm <sup>2</sup> |                                 |  |
| Type of push         |   | <b>Spring return</b>   | <b>Push and push-to-release</b> |  |
| References (10*)     | black ● N/O   | XB7 EA21P  | XB7 EH21P                       |  |
|                      | ● C/O   | XB7 EA25P  | XB7 EH25P                       |  |
|                      | green ● N/O   | <b>XB7 EA31P</b>   | <b>XB7 EH31P</b>                |  |
|                      | ● C/O   | XB7 EA35P  | XB7 EH35P                       |  |
|                      | red ● N/C   | <b>XB7 EA42P</b>   | -                               |  |
|                      | ● C/O   | XB7 EA45P  | -                               |  |
|                      | yellow ● N/O  | XB7 EA51P  | -                               |  |



| Selector switches and key switches |           |                               |                               |                               |                               |
|------------------------------------|-----------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Type of operator                   |           | <b>Black handle</b>           |                               | <b>Ronis key, n° 455</b>      |                               |
| Number and type of positions       |           | <b>2 positions</b> stay put ↙ | <b>3 positions</b> stay put ↘ | <b>2 positions</b> stay put ↙ | <b>3 positions</b> stay put ↘ |
| References (10*)                   | N/O       | <b>XB7 ED21P</b>              | -                             | <b>XB7 EG21P</b>              | -                             |
|                                    | N/C + N/O | XB7 ED25P                     | -                             | -                             | -                             |
|                                    | 2 N/O     | -                             | <b>XB7 ED33P</b>              | -                             | XB7 EG33P                     |



| Ø 40 mushroom head Emergency stop pushbuttons |                 |                        |                               |  |
|---|-----------------|------------------------|-------------------------------|--|
| Type of head                                  |                 | <b>Trigger action</b>  |                               |  |
| Type of push                                  |                 | <b>Turn to release</b> | <b>Key release, Ronis 455</b> |  |
| References (10*)                              | red ● N/C       | <b>XB7 ES542P</b>      | <b>XB7 ES142P</b>             |  |
|   | red ● N/C + N/O | XB7 ES545P             | XB7 ES145P                    |  |

(1) Alternative connection: 1 x 6.35 and 2 x 2.8 mm Faston connectors.


\* sold in lots of 10

# Contact functions and light functions

(1):

|          |            |
|----------|------------|
| Voltage  | Letter (●) |
| 24 V DC  | B          |
| 230 V AC | M          |



| Illuminated pushbuttons |   |  |                                   |
|-------------------------|---|--|-----------------------------------|
| <b>Type of head</b>     |  | <b>Projecting push</b>   |                                   |
| Degree of protection    |   | circular   |                                   |
| Mounting (mm)           | panel cut-out   | IP 54, class II  |                                   |
|                         | mounting centres  | Ø 22.4 (0 +0.1)  |                                   |
| Dimensions (mm)         | Ø x Depth (below head)  | 30 (horizontal) x 40 (vertical)  |                                   |
| Connection (2)          |   | Ø 29 x 41.5, (Ø 40 x 41.5 for Emergency stop)                              |                                   |
|                         |   | Screw clamp terminals, 1 x 0.34 mm <sup>2</sup> to 1 x 1.5 mm <sup>2</sup> |                                   |
| <b>Type of push</b>     |   | <b>Spring return</b>   |                                   |
| Light source            |   | Integral LED   | Incandescent bulb                 |
| Supply voltage          |   | 24 V DC or 230 V AC  | direct supply (bulb not included) |
| References (10*)        | green ● N/O   | <b>XB7 EW33●1P</b> (1)   | <b>XB7 EW3361P</b>                |
|                         | red ● N/O   | XB7 EW34●1P (1)  | XB7 EW3461P                       |
|                         | ● N/C   | XB7 EW34●2P (1)  | –                                 |
|                         | yellow ● N/O  | XB7 EW35●1P (1)  | XB7 EW3561P                       |
| <b>Type of push</b>     |   | <b>Push and push-to-release</b>  |                                   |
| Light source            |   | Integral LED   | Incandescent bulb                 |
| Supply voltage          |   | 24 V DC or 230 V AC  | direct supply (bulb not included) |
| References (10*)        | green ● N/O   | <b>XB7 EH03●1P</b> (1)   | <b>XB7 EH0361P</b>                |
|                         | red ● N/O   | XB7 EH04●1P (1)  | XB7 EH0461P                       |
|                         | ● N/C   | XB7 EH04●2P (1)  | –                                 |
|                         | yellow ● N/O  | XB7 EH05●1P (1)  | XB7 EH0561P                       |



| Pilot lights     |          |                        |   |
|------------------|----------|------------------------|---|
| Light source     |          | Integral LED           | Incandescent bulb direct supply (bulb not included)       |
| Supply voltage   |          | 24 V DC or 230 V AC    | Incandescent bulb direct through resistor (bulb included) |
| References (10)* | white ●  | XB7 EV01●1P (1)        | 6 or 24 V DC, or 130 V AC                                 |
|                  | green ●  | <b>XB7 EV03●1P</b> (1) | XB7 EV61P   |
|                  | red ●    | <b>XB7 EV04●1P</b> (1) | <b>XB7 EV63P</b>  |
|                  | yellow ● | XB7 EV05●1P (1)        | <b>XB7 EV64P</b>  |
|                  |          |                        | XB7 EV65P   |
|                  |          |                        | XB7 EV71P   |
|                  |          |                        | <b>XB7 EV73P</b>  |
|                  |          |                        | <b>XB7 EV74P</b>  |
|                  |          |                        | XB7 EV75P   |

| Incandescent bulbs, long life |   |            |               |
|-------------------------------|---|------------|---------------|
|                               | BA 9s base fitting, Ø 11 mm max., length 28 mm max. |            |               |
| References                    | 6 V (1.2 W)   | 24 V (2 W) | 130 V (2.4 W) |
|                               | DL1 CB006   | DL1 CE024  | DL1 CE130     |

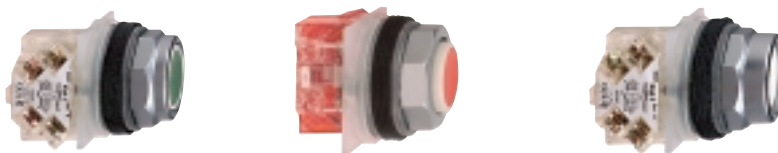
(1) Basic reference, to be completed by the letter B or M indicating the required voltage. See voltage table above.

(2) Alternative connection: 1 x 6.35 and 2 x 2.8 mm Faston connectors.

\* sold in lots of 10

## Pushbuttons, switches and pilot lights Ø 30 with metal bezel

### Contact functions



| Pushbuttons, spring return |                  |     |  |             |                         |
|----------------------------|------------------|-----|--|-------------|-------------------------|
| Type of push               |                  |     | Flush  | Projecting  | Projecting (high guard) |
| Colour of push             |                  |     | Multi-colour (set of 7 clip-in coloured caps)                            |             |                         |
| Degree of protection       |                  |     | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                     |             |                         |
| Mounting (mm)              | panel cut-out    |     | Ø 31   |             |                         |
|                            | mounting centres |     | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |             |                         |
| Depth below head (mm)      |                  |     | 42   |             |                         |
| Connection                 |                  |     | Screw clamp terminals  |             |                         |
| References                 |                  | C/O | 9001KR1UH13  | 9001KR3UH13 | 9001KR2UH13             |
|                            |                  | N/O | 9001KR1UH5   | 9001KR3UH5  | 9001KR2UH5              |



| Mushroom head Emergency stop pushbuttons |                              |     |  |                    |                    |
|--|------------------------------|-----|--|--------------------|--------------------|
| Type of push                             |                              |     | Spring return  | Push-pull          |                    |
|  |                              |     | Ø 35 mushroom head   | Ø 57 mushroom head | Ø 41 mushroom head |
| Degree of protection                     |                              |     | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                     |                    |                    |
| Mounting (mm)                            | panel cut-out                |     | Ø 31   |                    |                    |
|  | mounting centres             |     | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |                    |                    |
|  | mounting centres (Ø 57 head) |     | 57.2 x 57.2 (with legend 9001KN2●● or 9001KN3●●)                         |                    |                    |
| Depth below head (mm)                    |                              |     | 42   |                    |                    |
| Connection                               |                              |     | Screw clamp terminals  |                    |                    |
| References                               |                              | C/O | 9001KR24RH13   | 9001KR25RH13       | 9001KR9R94H13      |
|  |                              | N/C | 9001KR24RH6  | 9001KR25RH6        | 9001KR9RH6         |



| Selector switches and key switches |                  |     |  |              |              |
|------------------------------------|------------------|-----|--|--------------|--------------|
| Type of operator                   |                  |     | Long black handle  |              | Key, n° 455  |
|                                    | positions (1)    |     | 3 - spring return  | 2 - stay put | 2 - stay put |
| Number and type of positions       |                  |     |  |              |              |
| Degree of protection               |                  |     | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                     |              |              |
| Mounting (mm)                      | panel cut-out    |     | Ø 31   |              |              |
|                                    | mounting centres |     | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |              |              |
| Depth below head (mm)              |                  |     | 42   |              |              |
| Connection                         |                  |     | Screw clamp terminals  |              |              |
| References                         |                  | N/O | –  | 9001KS11FBH5 | 9001KS34FBH5 |
|                                    |                  | C/O | 9001KS53FBH1   | –            | 9001KS43FBH1 |

(1) The symbol indicates key withdrawal position.

## Light functions



### Pilot lights

|                       |                  |  |                     |                     |                                    |
|-----------------------|------------------|--|---------------------|---------------------|------------------------------------|
| <b>Type of head</b>   |                  | Smooth lens cap  |                     |                     |                                    |
| Degree of protection  |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                     |                     |                     |                                    |
| Mounting (mm)         | panel cut-out    | Ø 31   |                     |                     |                                    |
|                       | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |                     |                     |                                    |
| Depth below head (mm) |                  | 42   |                     |                     |                                    |
| Connection            |                  | Screw clamp terminals  |                     |                     |                                    |
| Type of light block   |                  | With high luminosity LED (included)                                      |                     |                     | Incandescent BA 9s bulb (included) |
| References            |                  | 24 V AC/DC   | 48 V AC/DC          | 120 V AC/DC         | 230 V AC                           |
|                       | green ●          | <b>9001KP35LGG9</b>  | <b>9001KP36LGG9</b> | <b>9001KP38LGG9</b> | <b>9001KP7G9</b>                   |
|                       | red ●            | <b>9001KP35LRR9</b>  | <b>9001KP36LRR9</b> | <b>9001KP38LRR9</b> | <b>9001KP7R9</b>                   |
|                       | yellow ●         | <b>9001KP35LYA9</b>  | <b>9001KP36LYA9</b> | <b>9001KP38LYA9</b> | <b>9001KP7A9</b>                   |



### Illuminated pushbuttons, spring return

|                       |                  |  |                        |                        |                                    |
|-----------------------|------------------|--|------------------------|------------------------|------------------------------------|
| <b>Type of head</b>   |                  | Spring return flush push   |                        |                        |                                    |
| Degree of protection  |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                     |                        |                        |                                    |
| Mounting (mm)         | panel cut-out    | Ø 31   |                        |                        |                                    |
|                       | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |                        |                        |                                    |
| Depth below head (mm) |                  | 42   |                        |                        |                                    |
| Connection            |                  | Screw clamp terminals  |                        |                        |                                    |
| Type of light block   |                  | With high luminosity LED (included)                                      |                        |                        | Incandescent BA 9s bulb (included) |
| References            |                  | 24 V AC/DC   | 48 V AC/DC             | 120 V AC/DC            | 230 V AC                           |
|                       | green ●          | C/O <b>9001K3L35LGGH13</b>   | <b>9001K3L36LGGH13</b> | <b>9001K3L38LGGH13</b> | <b>9001K2L7RH13</b>                |
|                       | red ●            | C/O <b>9001K3L35LRRH13</b>   | <b>9001K3L36LRRH13</b> | <b>9001K3L38LRRH13</b> | <b>9001K2L7GH13</b>                |
|                       | yellow ●         | C/O <b>9001K3L35LYAH13</b>   | <b>9001K3L36LYAH13</b> | <b>9001K3L38LYAH13</b> | <b>9001K2L7AH13</b>                |



### Illuminated Ø 41 mushroom head pushbuttons, high luminosity LED

|                       |                  |  |                       |                       |                                    |
|-----------------------|------------------|--|-----------------------|-----------------------|------------------------------------|
| Degree of protection  |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II                               |                       |                       |                                    |
| Mounting (mm)         | panel cut-out    | Ø 31   |                       |                       |                                    |
|                       | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)           |                       |                       |                                    |
| Depth below head (mm) |                  | 42   |                       |                       |                                    |
| Connection            |                  | Screw clamp terminals  |                       |                       |                                    |
| Type of light block   |                  | With high luminosity LED (included)  |                       |                       | Incandescent BA 9s bulb (included) |
|                       |                  | 24 V AC/DC   | 48 V AC/DC            | 120 V AC/DC           | 230 V AC/DC                        |
| <b>Type of head</b>   |                  | 2 position, push-pull  |                       |                       |                                    |
| References            | red ●            | C/O <b>9001KR9P35RH13</b>  | <b>9001KR9P36RH13</b> | <b>9001KR9P38RH13</b> | <b>9001KR9P7RH13</b>               |
| <b>Type of head</b>   |                  | 3 position, push-pull (pull: spring return, centre: stay put, push: spring return) |                       |                       |                                    |
| References            | red ●            | N/C + N/C late break <b>9001KR8P35RH25</b>   | <b>9001KR8P36RH25</b> | <b>9001KR8P38RH25</b> | <b>9001KR8P7RH25</b>               |



| Pushbuttons, spring return |                  |  |              |                         |              |
|----------------------------|------------------|--|--------------|-------------------------|--------------|
| Type of push               |                  | Flush  | Projecting   | Projecting (high guard) |              |
| Colour of push             |                  | Multi-colour (set of 7 clip-in coloured caps)                            |              |                         |              |
| Degree of protection       |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II                    |              |                         |              |
| Mounting (mm)              | panel cut-out    | Ø 31   |              |                         |              |
|                            | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |              |                         |              |
| Depth below head (mm)      |                  | 42   |              |                         |              |
| Connection                 |                  | Screw clamp terminals  |              |                         |              |
| References                 |                  | C/O  | 9001SKR1UH13 | 9001SKR3UH13            | 9001SKR2UH13 |
|                            |                  | N/O  | 9001SKR1UH5  | 9001SKR3UH5             | 9001SKR2UH5  |



| Selector switches            |                  |  |               |                   |               |               |
|------------------------------|------------------|--|---------------|-------------------|---------------|---------------|
| Type of operator             |                  | Long black handle  |               |                   |               |               |
| Number and type of positions | positions        | 3 - spring return  | 2 - stay put  | 2 - spring return | 3 - stay put  |               |
|                              |                  |  |               |                   |               |               |
| Degree of protection         |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II                    |               |                   |               |               |
| Mounting (mm)                | panel cut-out    | Ø 31   |               |                   |               |               |
|                              | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |               |                   |               |               |
| Depth below head (mm)        |                  | 42   |               |                   |               |               |
| Connection                   |                  | Screw clamp terminals  |               |                   |               |               |
| References                   |                  | N/O  | –             | 9001SKS11FBH5     | 9001SKS34FBH5 | –             |
|                              |                  | C/O  | 9001SKS53FBH1 | –                 | –             | 9001SKS43FBH1 |



| Pilot lights          |                  |  |               |                                    |            |
|-----------------------|------------------|--|---------------|------------------------------------|------------|
| Type of head          |                  | Smooth lens cap  |               |                                    |            |
| Degree of protection  |                  | IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II                    |               |                                    |            |
| Mounting (mm)         | panel cut-out    | Ø 31   |               |                                    |            |
|                       | mounting centres | 57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●) |               |                                    |            |
| Depth below head (mm) |                  | 42   |               |                                    |            |
| Connection            |                  | Screw clamp terminals  |               |                                    |            |
| Type of light block   |                  | With high luminosity LED (included)                                      |               | Incandescent BA 9s bulb (included) |            |
| References            |                  | 24 V AC/DC   | 48 V AC/DC    | 120 V AC/DC                        | 230 V AC   |
|                       | green ●          | 9001SKP35LGG9  | 9001SKP36LGG9 | 9001SKP38LGG9                      | 9001SKP7G9 |
|                       | red ●            | 9001SKP35LRR9  | 9001SKP36LRR9 | 9001SKP38LRR9                      | 9001SKP7R9 |
|                       | yellow ●         | 9001SKP35LYA9  | 9001SKP36LYA9 | 9001SKP38LYA9                      | 9001SKP7A9 |

## Accessories



### Contact blocks with protected terminals

|                 |                       |         |
|-----------------|-----------------------|---------|
| Type of contact | Single contact blocks |         |
| Connection      | Screw clamp terminals |         |
| References      | C/O                   | 9001KA1 |
|                 | N/O                   | 9001KA2 |
|                 | N/C                   | 9001KA3 |
|                 | C/O, late break       | 9001KA4 |
|                 | N/C, late break       | 9001KA5 |
|                 | N/O, early make       | 9001KA6 |



### Enclosures

| Type            | Number of Ø 30 mm cut-outs | NEMA ratings       | Reference |
|-----------------|----------------------------|--------------------|-----------|
| Aluminium       | 1                          | 1, 3, 4, 6, 12, 13 | 9001KY1   |
|                 | 2                          | 1, 3, 4, 6, 12, 13 | 9001KY2   |
|                 | 3                          | 1, 3, 4, 6, 12, 13 | 9001KY3   |
|                 | 4                          | 1, 3, 4, 6, 12, 13 | 9001KY4   |
| Stainless steel | 1                          | 1, 3, 4, 4X, 13    | 9001KYSS1 |
|                 | 2                          | 1, 3, 4, 4X, 13    | 9001KYSS2 |
|                 | 3                          | 1, 3, 4, 4X, 13    | 9001KYSS3 |

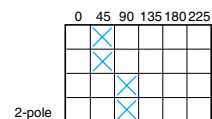
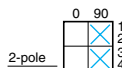


### Legends

| Type    | Colour of legend               | Aluminium, size 44 x 43 mm<br>black background | Plastic, size 57 x 57 mm<br>white background |
|---------|--------------------------------|--|--|
| Marking | Blank                          | 9001KN200                                      | 9001KN100WP                                  |
|         | START                          | 9001KN201                                      | 9001KN101WP                                  |
|         | STOP (red background)          | 9001KN202                                      | 9001KN102RP                                  |
|         | FORWARD                        | 9001KN206                                      | 9001KN106WP                                  |
|         | REVERSE                        | 9001KN207                                      | 9001KN107WP                                  |
|         | CLOSE                          | 9001KN208                                      | 9001KN108WP                                  |
|         | OPEN                           | 9001KN209                                      | 9001KN109WP                                  |
|         | DOWN                           | 9001KN210                                      | 9001KN110WP                                  |
|         | UP                             | 9001KN211                                      | 9001KN111WP                                  |
|         | HIGH                           | 9001KN214                                      | 9001KN114WP                                  |
|         | LOW                            | 9001KN215                                      | 9001KN115WP                                  |
|         | RESET                          | 9001KN223                                      | 9001KN123WP                                  |
|         | PULL TO START/<br>PUSH TO STOP | 9001KN379                                      | 9001KN179WP                                  |



positions (°)

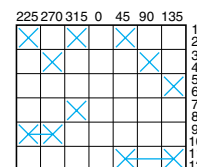
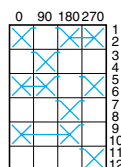
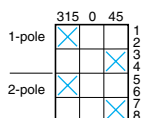


### Cam switches, K1 / K2 series

| Function   | Switches                                | ON-OFF switches                       | Stepping switches                       |
|--|---|---------------------------------------|---|
|  | 45° switching angle                     | 90° switching angle                   | with "0" position                       |
| Degree of protection front face                        | IP 65 (1)                               | IP 65 (1)                             | IP 65 (1)                               |
| Conventional thermal current (Ith)                     | 12 A   20 A                             | 12 A   20 A                           | 12 A   20 A                             |
| Rated insulation voltage (Ui) conforming to IEC60947-1 | 690 V                                   | 690 V                                 | 690 V                                   |
| Number of positions                                    | 2                                       | 2                                     | 2 + "0" position                        |
| Number of poles  | 2                                       | 2                                     | 2                                       |
| Dimensions of front plate (mm)                         | 45 x 45                                 | 45 x 45                               | 45 x 45                                 |
| Front mounting method                                  | Multifixing plate, 45 x 45 mm           | <b>K1B 002ALH</b>   <b>K2B 002ALH</b> | <b>K1B 1002HLH</b>   <b>K2B 1002HLH</b> |
|  | Plastic mounting plate for Ø 22 mm hole | <b>K1B 002ACH</b>   <b>K2B 002ACH</b> | <b>K1B 1002HCH</b>   <b>K2B 1002HCH</b> |
|  |   | <b>K1D 012QLH</b>   <b>K2D 012QLH</b> | <b>K1D 012QCH</b>   <b>K2D 012QCH</b>   |



positions (°)



### Cam switches, K1 / K2 series

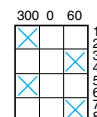
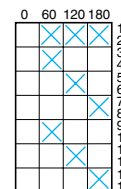
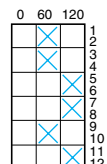
| Function   | Changeover switches                     | Ammeter switches                                | Voltmeter switches  |
|--|---|---|---|
| Degree of protection front face                        | IP 65 (1)                               | IP 65 (1)                                       | IP 65 (1)   |
| Conventional thermal current (Ith)                     | 12 A   20 A                             | 12 A   20 A                                     | 12 A   20 A   |
| Rated insulation voltage (Ui) conforming to IEC60947-1 | 690 V                                   | 690 V   | 690 V   |
| Number of positions                                    | 2 + "0" position                        | 3 + "0" position<br>(3 circuits + "0" position) | 6 + "0" position (measurements between 3 phases & N + "0" pos.) |
| Number of poles  | 2                                       | 4   | 7   |
| Dimensions of front plate (mm)                         | 45 x 45                                 | 45 x 45   | 45 x 45   |
| Front mounting method                                  | Multifixing plate, 45 x 45 mm           | <b>K1D 002ULH</b>   <b>K2D 002ULH</b>           | <b>K1F 003MLH</b>   to be compiled *                            |
|  | Plastic mounting plate for Ø 22 mm hole | <b>K1D 002UCH</b>   <b>K2D 002UCH</b>           | <b>K1F 003MCH</b>   to be compiled *                            |
|  |   | <b>K1F 027MLH</b>   to be compiled *            | <b>K1F 027MCH</b>   to be compiled *                            |

(1) With seal KZ73 for switch with Multifixing plate, with seal KZ65 for Ø 22 mm hole mounting switches. Seal to be ordered separately.

(\*) Please consult your Schneider Electric agency.



positions (°)



### Cam switches with key operated lock, K1 series

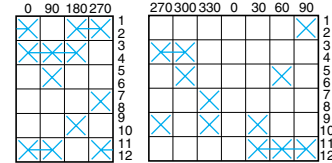
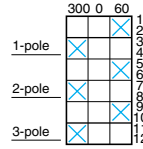
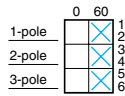
| Function   | Stepping switches                     | Run switches                          | Changeover switches + "0" pos.        |
|--|---------------------------------------|---------------------------------------|---------------------------------------|
| Degree of protection front face                        | IP 65                                 | IP 65                                 | IP 65                                 |
| Conventional thermal current (Ith)                     | 12 A                                  | 12 A                                  | 12 A                                  |
| Rated insulation voltage (Ui) conforming to IEC60947-1 | 690 V                                 | 690 V                                 | 690 V                                 |
| Number of positions                                    | 2 + "0" position                      | 3 + "0" position                      | 2 + "0" position                      |
| Number of poles  | 3                                     | 2                                     | 2                                     |
| Dimensions of front plate (mm)                         | 55 x 100                              | 55 x 100                              | 55 x 100                              |
| Colour of handle                                       | red   black                           | red   black                           | red   black                           |
| Front mounting method                                  | Ø 22 mm hole + Ø 43.5 mm hole         |                                       |                                       |
|  | <b>K1F 022QZ2</b>   <b>K1F 022QZ4</b> | <b>K1G 043RZ2</b>   <b>K1G 043RZ4</b> | <b>K1D 002UZ2</b>   <b>K1D 002UZ4</b> |



# 10 to 150 A ratings



positions (°)



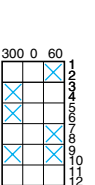
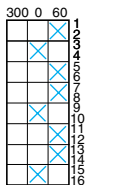
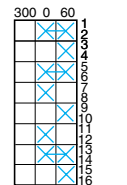
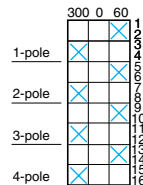
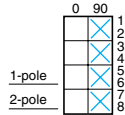
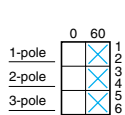
| Cam switches, K10 series                               |                          |   |   |                     |             |                  |                    |             |             |             |
|--|--------------------------|---|---|---------------------|-------------|------------------|--------------------|-------------|-------------|-------------|
| Function   | Switches                 |   |   | Changeover switches |             | Ammeter switches | Voltmeter switches |             |             |             |
| Degree of protection                                   | front face               |   |   | with "0" position   |             | IP 65            | IP 65              |             |             |             |
| Conventional thermal current (Ith)                     | 10 A                     |   |   | 10 A                |             | IP 65            | IP 65              |             |             |             |
| Rated insulation voltage (Ui) conforming to IEC60947-1 | 440 V                    |   |   | 440 V               |             | IP 65            | IP 65              |             |             |             |
| Number of positions                                    | 2                        |   |   | 2 + "0" position    |             | 3 + "0" pos. (1) | 6 + "0" pos. (2)   |             |             |             |
| Number of poles  | 1                        | 2 | 3 | 2                   | 3           | 3                | 3                  |             |             |             |
| Dimensions of front plate (mm)                         | 30 x 30                  |   |   | 30 x 30             |             | 30 x 30          | 30 x 30            |             |             |             |
| Front mounting method                                  | By Ø 16 mm or 22 mm hole |   |   | K10 A001ACH         | K10 B002ACH | K10 C003ACH      | K10 D002UCH        | K10 F003UCH | K10 F003MCH | K10 F027MCH |

(1) (3 circuits + "0" position).

(2) (Measurements between 3 phases and N + "0" position).



positions (°)



| Cam switches, K30 series                               |             |                |                   |                |                |                |                |                |
|--|-------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Function   | Switches    | Switches       | Changeover        | Starting       | Starting       | Reversing      |                |                |
| Degree of protection                                   | front face  |                | with "0" position | star-delta     | 2-speed        | IP 40          |                |                |
| Conventional thermal current (Ith)                     | IP 40       | IP 40          | IP 40             | IP 40          | IP 40          | IP 40          |                |                |
| Conventional thermal current (Ith)                     | 32 A        | 32 A           | 32 A              | 32 A           | 32 A           | 32 A           |                |                |
| Rated insulation voltage (Ui) conforming to IEC60947-1 | 690 V       | 690 V          | 690 V             | 690 V          | 690 V          | 690 V          |                |                |
| Number of positions                                    | 2           | 2              | 3                 | 3              | 3              | 3              |                |                |
| Number of poles  | 3           | 3              | 4                 | 3              | 3              | 3              |                |                |
| Dimensions of front plate (mm)                         | 64 x 64     | 64 x 64        | 64 x 64           | 64 x 64        | 64 x 64        | 64 x 64        |                |                |
| Front mounting method                                  | Multifixing | K30 C003AP (3) | K30 C003HP (3)    | K30 D004HP (3) | K30 H004UP (3) | K30 H001YP (3) | K30 H004PP (3) | K30 E003WP (3) |

(3) To order switches with other thermal current ratings (50, 63, 115, 150 A): replace the number 30 in the reference by 50, 63, 115 or 150 respectively.

Example: a switch with a 32 A current rating, for example K30 C003AP, becomes K50 C003AP for a current rating of 50 A.

## Accessories for cam switches K1/K2

| Rubber seals                   |  |  |  |
|--------------------------------|--|--|--|
| for IP 65 degree of protection |  |  |  |
| For use with heads             | with 45 x 45 mm front plate<br>Ø 22 mm hole or 4 hole front mtg. | with 60 x 60 mm front plate<br>Ø 22 mm hole or 4 hole front mtg. | with 45 x 45 mm front plate<br>multifixing |
| References (5)*                | KZ 65  | KZ 66  | KZ 73                                      |

\* sold in lots of



| Illuminated beacons XVB L, Ø 70 mm   |                  | Steady light signalling                           |                               | Flashing light signalling     |                                |
|--------------------------------------|------------------|---|-------------------------------|-------------------------------|--------------------------------|
| <b>Light source</b>                  |                  | Incandescent BA 15d bulb, 7 W max. (not included) | LED on BA 15d base (included) | LED on BA 15d base (included) | "Flash" discharge tube 5 J (1) |
| <b>Degree of protection</b>          |                  | IP 65   |                               |                               |                                |
| <b>Rated insulation voltage (Ui)</b> |                  | 250 V   |                               |                               |                                |
| <b>Beacon references (2)</b>         | 12...230 V AC/DC | XVB L3●   | –                             | –                             | –                              |
|                                      | 24 V AC/DC       | –   | XVB L0B●                      | XVB L1B●                      | XVB L6B●                       |
|                                      | 120 V AC         | –   | XVB L0G●                      | XVB L1G●                      | XVB L6G●                       |
|                                      | 230 V AC         | –   | XVB L0M●                      | XVB L1M●                      | XVB L6M●                       |



| Indicator banks XVB C, Ø 70 mm<br>2 to 5 units (3) |                   | Base units  | Steady light signalling                            |              | Flashing light signalling |                                 | Audible units<br>(90 db at 1 m) |
|--|-------------------|-------------|--|--------------|---------------------------|---------------------------------|---------------------------------|
| <b>Light source</b>                                |                   | –           | Incandescent BA 15d bulb, 10 W max. (not included) | Integral LED | Integral LED              | "Flash" discharge tube, 5 J (1) | –                               |
| <b>Degree of protection</b>                        |                   | IP 65       |  |              |                           |                                 |                                 |
| <b>Rated insulation voltage (Ui)</b>               |                   | 250 V       |  |              |                           |                                 |                                 |
| <b>Base unit references</b>                        | with cover        | XVB C21 (4) | –  | –            | –                         | –                               | –                               |
|  | without cover     | XVB C07 (5) | –  | –            | –                         | –                               | –                               |
| <b>Lens unit references (2)</b>                    | 12... 230 V AC/DC | –           | XVB C3●  | –            | –                         | –                               | –                               |
|  | 24 V AC/DC        | –           | –  | XVB C2B●     | XVB C5B●                  | XVB C6B●                        | –                               |
|  | 120 V AC          | –           | –  | XVB C2G●     | XVB C5G●                  | XVB C6G●                        | –                               |
|  | 230 V AC          | –           | –  | XVB C2M●     | XVB C5M●                  | XVB C6M●                        | –                               |
| <b>Audible unit references</b>                     | 12 to 48 V AC/DC  | –           | –  | –            | –                         | –                               | XVB C9B                         |
| unidirectional                                     | 120 to 230 V AC   | –           | –  | –            | –                         | –                               | XVB C9M                         |

(4) For connection on AS-Interface, order a base unit XVB C21A (side cable entry) or XVB C21B (bottom cable entry).

(5) For indicator banks with "Flash" discharge unit.



| Indicator banks XVP C, Ø 50 mm<br>2 to 5 units (3), black clamping ring (6) |            | Base unit | Steady or flashing light signalling                | "Flash" signalling            |                               | Audible units<br>(55...85 dB at 1 m) |
|---|------------|-----------|--|-------------------------------|-------------------------------|--------------------------------------|
| <b>Light source</b>   |            | –         | Incandescent BA 15d bulb, 10 W max. (not included) | "Flash" discharge tube, 0.3 J | "Flash" discharge tube, 0.6 J | –                                    |
| <b>Degree of protection</b>   |            | IP 65     |  |                               |                               |                                      |
| <b>Rated insulation voltage (Ui)</b>  | 250 V      |           |  |                               |                               |                                      |
| <b>Base unit</b>  | with cover | XVP C21   | –  | –                             | –                             | –                                    |
| <b>References (2)</b>   | 250 V max. |           | XVP C3●  | –                             | –                             | –                                    |
|   | 24 V DC    |           | –  | XVP C6B●                      | –                             | XVP C09B                             |
|   | 120 V AC   |           | –  | –                             | XVP C6G●                      | XVP C09G                             |
|   | 230 V AC   |           | –  | –                             | XVP C6M●                      | XVP C09M                             |

(1) To order a lens unit with a 10 J discharge tube, replace the number 6 by 8 (example: XVB L6B● becomes XVB L8B●).

(2) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green, 4 = red, 5 = orange, 6 = blue, 7 = clear, 8 = yellow.

(3) An indicator bank comprises: 1 base unit + 1 to 5 illuminated units or 1 audible unit max.

(6) To order products with a **cream clamping ring**, add the letter **W** to the end of the reference (example: base unit + green lens unit: XVP C21W + XVP C33W, etc.).

# Miniature beacons

## Rotating mirror beacon and Sirens



| Miniature illuminated beacons XVD LS<br>Ø 45 mm |                  | Steady light signalling                           | "Flash" signalling            |
|---|------------------|---|-------------------------------|
| <b>Light source</b>                             |                  | Incandescent BA 15d bulb, 5 W max. (not included) | "Flash" discharge tube, 0.5 J |
| <b>Degree of protection</b>                     |                  | IP 40   |                               |
| <b>Rated insulation voltage (Ui)</b>            |                  | 250 V   |                               |
| <b>Beacon references (1)</b>                    | 24...230 V AC/DC | <b>XVD LS3●</b>                                   | –                             |
|   | 24 V AC/DC       | –   | <b>XVD LS6B●</b>              |
|   | 120 V AC         | –   | <b>XVD LS6G●</b>              |
|   | 230 V AC         | –   | <b>XVD LS6M●</b>              |

(1) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green, 4 = red, 5 = orange, 6 = blue, 7 = clear, 8 = yellow.



| Rotating mirror beacon XVR and sirens XVS | Rotating mirror beacon             |  | Sirens, 106 db  |               |               |
|---|------------------------------------|--|-----------------|---------------|---------------|
| <b>Description</b>                        | Halogen bulb<br>70 W H1 (included) | Incandescent bulb<br>25 W BA15d (included) | 1 tone          | 2 tone        |               |
| <b>Diameter</b>                           | Ø 165 mm                           |  | Ø 92 mm         |               |               |
| <b>Degree of protection</b>               | IP 65                              |  | IP 40           |               |               |
| <b>Rated insulation voltage (Ui)</b>      | 250 V                              |  |                 |               |               |
| <b>References (2)</b>                     | 24 V AC/DC                         | <b>XVR 1B9●</b>                            | <b>XVR 1B0●</b> | <b>XVS B1</b> | <b>XVS B2</b> |
|   | 120 V AC                           | –  | <b>XVR 1G0●</b> | <b>XVS G1</b> | <b>XVS G2</b> |
|   | 230 V AC                           | –  | <b>XVR 1M0●</b> | <b>XVS M1</b> | <b>XVS M2</b> |

(2) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green, 4 = red, 5 = orange, 6 = blue, 8 = yellow.

## Accessories

| Bulbs and LEDs        |       | Indicator banks<br>XVB / XVP           |                          |                                   | Beacons<br>XVD LS                      | Rotating mirror beacon             |   |
|-----------------------|-------|--|--------------------------|-----------------------------------|--|------------------------------------|---|
| <b>Light source</b>   |       | Incandescent bulb, BA 15d base fitting | LED, BA 15d base fitting | Flashing LED, BA 15d base fitting | Incandescent bulb, BA 15d base fitting | Halogen bulb, 70 W H1 base fitting | Incandescent bulb, 25 W BA 15d base fitting |
| <b>References (3)</b> | 12 V  | DL1 BEJ (7 W)                          | –                        | –                                 | –                                      | –                                  | –   |
|                       | 24 V  | DL1 BEB (6.5 W)                        | DL1 BDB●                 | DL1 BKB●                          | DL1 BEBS (4 W)                         | DL1 BRBH                           | DL1 BRB                                     |
|                       | 48 V  | DL1 BEE (6 W)                          | –                        | –                                 | –                                      | –                                  | –   |
|                       | 120 V | DL1 BEG (7 W)                          | DL1 BDG●                 | DL1 BKG●                          | DL1 BEGS (5 W)                         | –                                  | DL1 BRG                                     |
|                       | 230 V | DL1 BEM (7 W)                          | DL1 BDM●                 | DL1 BKM●                          | DL1 BEMS (5 W)                         | –                                  | DL1 BRM                                     |

(3) To obtain the complete reference, replace the ● by the number designating the colour as follows: 1 = white, 3 = green, 4 = red, 6 = blue, 8 = orange.

| Mounting accessories                | For beacons and indicator banks<br>type XVB |         |         | For beacons and indicator banks<br>type XVP |             |             |
|-------------------------------------|---|---------|---------|---|-------------|-------------|
| <b>Length</b>                       | 100 mm                                      | 400 mm  | 800 mm  | 112 mm                                      | 260 mm      | 410 mm      |
| <b>Black aluminium support tube</b> | XVB C02                                     | XVB C03 | XVB C04 | XVP C02 (4)                                 | XVP C03 (4) | XVP C04 (4) |
| <b>Black fixing plates</b>          | for horizontal support                      |         |         | –   |             |             |
|                                     | for vertical support                        |         |         | XVP C12 (4)                                 |             |             |

(4) Aluminium support tube with integral fixing base. To order a cream XVP unit, add the letter **W** to the end of the reference (example: XVP C03W).

## Pendant control stations for control circuits

### Ready to use



#### Type XAC A "Pistol grip"

|                                   |   |                                    |                    |                                    |           |
|-----------------------------------|---|------------------------------------|--------------------|------------------------------------|-----------|
| Degree of protection              | IP 65 / Nema 4, 4X / Class II   |                                    |                    |                                    |           |
| Rated operational characteristics | AC 15 (240 V 3 A), DC 13  |                                    |                    |                                    |           |
| Conventional thermal current      | lthe  | 10 A                               |                    |                                    |           |
| Connection                        | Screw clamp terminals, 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> |                                    |                    |                                    |           |
| For control of                    | single-speed motors<br>   |                                    | 2-speed motors<br> |                                    |           |
| Dimensions (mm)                   | W x H x D   | 52 x 295 x 71 (x 85 with ZA2 BS44) |                    | 52 x 295 x 71 (x 85 with ZA2 BS44) |           |
| Number of operators               | mechanically interlocked  | 2                                  |                    | 2                                  |           |
|                                   | Emergency stop  | without                            | ZA2 BS44           | without                            | ZA2 BS44  |
| References                        |   | XAC A201                           | XAC A2013          | XAC A207                           | XAC A2073 |



#### Type XAC A

|                                    |  |                                    |           |                                    |           |
|------------------------------------|--|------------------------------------|-----------|------------------------------------|-----------|
| For control of single-speed motors |  |                                    |           |                                    |           |
| Dimensions (mm)                    | W x H x D                              | 80 x 314 x 70 (x 90 with ZA2 BS44) |           | 80 x 440 x 70 (x 90 with ZA2 BS54) |           |
| Number of operators                | mechanically interlocked between pairs | 2                                  |           | 4                                  |           |
|                                    | Emergency stop                         | without                            | ZA2 BS44  | without                            | ZA2 BS54  |
| References                         |  | XAC A271                           | XAC A2713 | XAC A471                           | XAC A4713 |



|                                    |  |                                    |           |               |
|------------------------------------|--|------------------------------------|-----------|---------------|
| For control of single-speed motors |  |                                    |           |               |
| Dimensions (mm)                    | W x H x D                              | 80 x 500 x 70 (x 90 with ZA2 BS54) |           | 80 x 560 x 70 |
| Number of operators                | mechanically interlocked between pairs | 6                                  |           | 8             |
|                                    | Emergency stop                         | without                            | ZA2 BS54  | without       |
| References                         |  | XAC A671                           | XAC A6713 | XAC A871      |

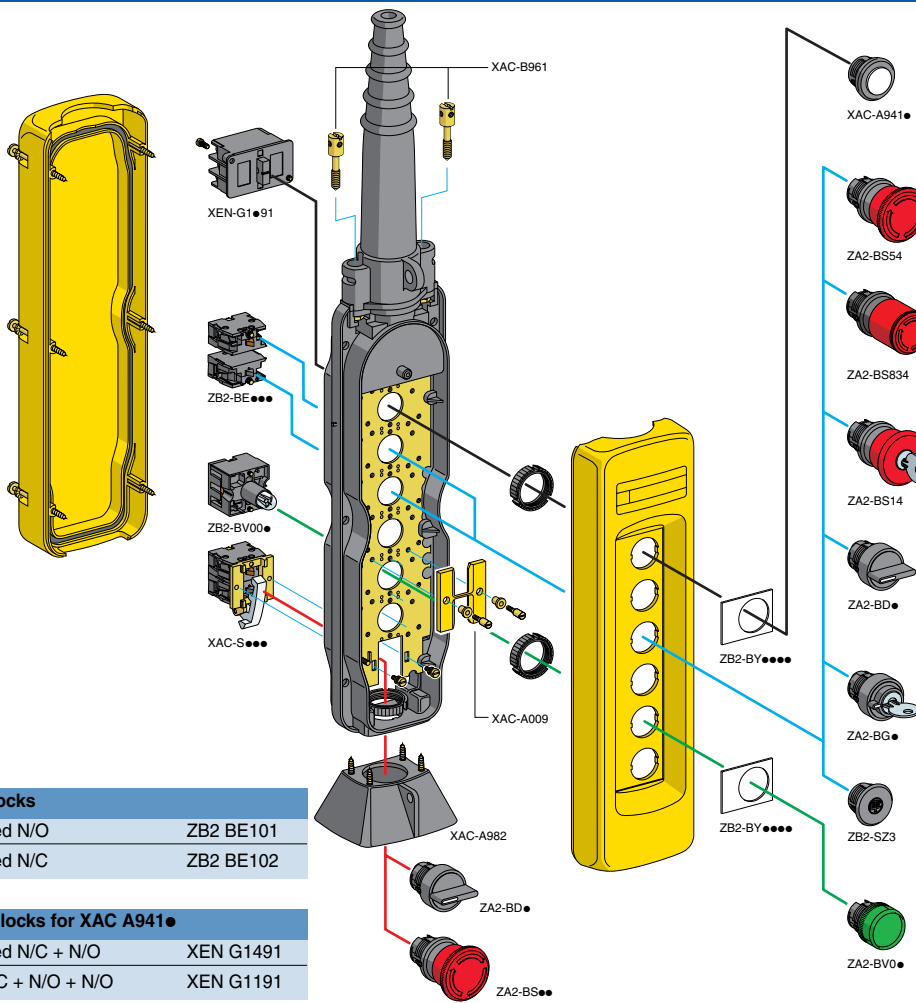
# Stations for user assembly



## Empty enclosures type XAC A

|                |         |         |         |         |         |         |         |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Number of ways | 2       | 3       | 4       | 5       | 6       | 8       | 12      |
| References     | XAC A02 | XAC A03 | XAC A04 | XAC A05 | XAC A06 | XAC A08 | XAC A12 |

## Separate components (for mounting in enclosures XAC A)



| Contact blocks   |           |
|------------------|-----------|
| Single-speed N/O | ZB2 BE101 |
| Single-speed N/C | ZB2 BE102 |

| Contacts blocks for XAC A941● |           |
|-------------------------------|-----------|
| Single-speed N/C + N/O        | XEN G1491 |
| 2-speed N/C + N/O + N/O       | XEN G1191 |

| Contact blocks (for mounting in enclosure base) |          |
|---|----------|
| N/O   | XAC S101 |
| N/C + N/O                                       | XAC S105 |

**Protective guard (for base mounted units)**  
For selector switch or mushroom head pushbutton XAC A982

| Booted operators |           |
|------------------|-----------|
| white            | XAC A9411 |
| black            | XAC A9412 |

| Mushroom head, latching |          |
|-------------------------|----------|
| turn to release Ø 30    | ZA2 BS44 |
| Ø 40                    | ZA2 BS54 |

| Mushroom head, latching, trigger action |           |
|---|-----------|
| turn to release Ø 30                    | ZA2 BS834 |
| Ø 40                                    | ZA2 BS844 |

| Mushroom head, latching |          |
|-------------------------|----------|
| key release Ø 30        | ZA2 BS74 |
| Ø 40                    | ZA2 BS14 |

| Selector switch |         |
|-----------------|---------|
| 2 pos. stay put | ZA2 BD2 |
| 3 pos. stay put | ZA2 BD3 |

| Key switch                 |         |
|----------------------------|---------|
| key n° 455 2 pos. stay put | ZA2 BG4 |
| 3 pos. stay put            | ZA2 BG5 |

| Blanking plug            |         |
|--------------------------|---------|
| with seal and fixing nut | ZB2 SZ3 |

| Pilot light heads |          |
|-------------------|----------|
| white             | ZA2 BV01 |
| green             | ZA2 BV03 |
| red               | ZA2 BV04 |
| yellow            | ZA2 BV05 |

| Pilot light bodies              |           |
|---------------------------------|-----------|
| direct supply                   | ZB2 BV006 |
| direct supply, through resistor | ZB2 BV007 |

## Legends, 30 x 40 mm

| Legends, 30 x 40 mm | With symbols conforming to NF E 52-124 |            |            |            |            |            | With text  |                            |            |
|---------------------|--|------------|------------|------------|------------|------------|------------|----------------------------|------------|
|                     |  |            |            |            |            |            |            |                            |            |
| References          | ZB2 BY4901                             | ZB2 BY4903 | ZB2 BY4907 | ZB2 BY4909 | ZB2 BY4913 | ZB2 BY4915 | ZB2 BY4930 | ZB2 BY2303                 | ZB2 BY2304 |
|                     |  |            |            |            |            |            |            | blank                      |            |
| References          | ZB2 BY2904                             | ZB2 BY2906 | ZB2 BY2910 | ZB2 BY2912 | ZB2 BY2916 | ZB2 BY2918 | ZB2 BY2931 | white or yellow background | ZB2 BY4101 |

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