Control and signalling units Ø 22
Harmony® style 5
Pushbuttons, switches and pilot lights, with double insulated bezel


Component parts and accessories ZB


General
Control and signalling units Ø $\mathbf{2 2}$
Harmony® style 5
Pushbuttons, switches and pilot lights, with double insulated bezel

Schematic library


## Control and signalling units Ø 22

Harmony ${ }^{\circledR}$ style 5
Pushbuttons, switches and pilot lights, with double insulated bezel Sub-assemblies, ZB5-A

Non illuminated units for user assembly

Pushbuttons, spring return, without marking


Pushbuttons, spring return, with marking


| Characteristics: | References: <br> pages $2 / 10$ to $2 / 47$ | Dimensions: <br> pages $2 / 48$ to $2 / 55$ |  |
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| $2 / 2$ |  | Tekrusernize: |  |

Harmony ${ }^{\circledR}$ style 5
Pushbuttons, switches and pilot lights, with double insulated bezel Sub-assemblies, ZB5-A

Selector switches
and key switches



Contact functions (continued)
Body Head
 see page 2/10

Mushroom head pushbuttons, latching


Mushroom head pushbuttons, spring return

## Control and signalling units Ø 22

Harmony ${ }^{\circledR}$ style 5
Pushbuttons, switches and pilot lights, with double insulated bezel Sub-assemblies, ZB5-A

## Pilot lights <br> for user assembly



| Characteristics: pages 2/6 to 2/9 | References: pages 2/10 to 2/47 | Dimensions: <br> pages $2 / 48$ to $2 / 55$ |  |
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Harmony ${ }^{\circledR}$ style 5
Pushbuttons, switches and pilot lights, with double insulated bezel Sub-assemblies, ZB5-A


| Characteristics: pages 2/6 to 2/9 | References: pages $2 / 10$ to $2 / 47$ | Dimensions: pages $2 / 48$ to $2 / 55$ |  |
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## Characteristics

## Control and signalling units $\boldsymbol{\varnothing} 22$

Harmony® style 5
Pushbuttons, switches and pilot lights, with double insulated bezel

| Environment |  |  |  |
| :---: | :---: | :---: | :---: |
| Protective treatment standard version |  |  | "TH" |
| Ambient air temperature around the device | Storage | ${ }^{\circ} \mathrm{C}$ | $-40 \ldots+70$ |
|  | Operation | C | $-25 \ldots+70$ unless otherwise stated |
| Electric shock protection | Conforming to IEC 536 |  | Class II |
| Degree of protection | Conforming to IEC 529 |  | IP 65, unless otherwise stated IP 66, for booted pushbutton heads |
|  | Conforming to NEMA |  | NEMA type 4X and 13, unless otherwise stated |
| High pressure cleaning resistance |  | Pa | $70 \times 10^{5}$ (70 bar); distance: 0.1 m Temperature: $55^{\circ} \mathrm{C}$ |
| Mechanical shock protection | Conforming to EN 50102 |  | Non illuminated heads: IK 03 |
|  |  |  | Illuminated heads: IK 05 |
| Conforming to standards |  |  | IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60947-5-4, JIS C 4520, <br> UL 508, CSA C22-2 n 14 |
| Product certifications | UL Listed, CSA |  | Standard single contacts with screw clamp terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5-PA/ZD5-PA: A600; R300 |
|  | UL Recognized, CSA |  | Standard single contacts for plug-in connector: A300; R300 Standard single contacts for printed circuit board: B300; R300 |
|  | BV, RINA, LROS, DNV, GL (pending) |  | Standard single contacts and double contacts with screw clamp terminals |
| Terminal identification | Conforming to EN 50005 \& EN 50013 |  |  |
| Characteristics of contact blocks |  |  |  |


| Mechanical characteristics |  |  |  |
| :---: | :---: | :---: | :---: |
| Contact operation | N/C or N/O |  | Slow break |
| Positive operation | Conforming to IEC/EN 60947-5-1 Appendix K |  | All functions incorporating a N/C contact are positive opening operation |
| Operating travel (to change electrical state) | Pushbutton | mm <br> mm | Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3 |
| Operating force | Pushbutton | $\begin{aligned} & \mathbf{N} \\ & \mathbf{N} \\ & \hline \end{aligned}$ | Changing N/C state: 3.5 Changing N/O state: 3.8 |
|  | Additional contact (extra to change state) | $\begin{aligned} & \mathrm{N} \\ & \mathrm{~N} \end{aligned}$ | Single N/C contact: 2 <br> Single N/O contact: 2.3 |
|  |  | $\begin{aligned} & \mathrm{N} \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | Double contact N/C: 3.4 <br> Double contact N/O: 5 <br> Double contact N/C + N/O: 4.6 |
|  | Emergency stop with $\mathrm{N} / \mathrm{C}+\mathrm{N} / \mathrm{O}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{~N} \end{aligned}$ | Standard push-pull: 45 Trigger action push-pull: 50 |
|  |  | $\begin{aligned} & \mathrm{N} \\ & \mathrm{~N} \end{aligned}$ | Standard turn to release and key release: 40 Trigger action turn to release and key release: 44 |


| General: <br> pages $2 / 0$ to $2 / 5$ | References: <br> pages $2 / 10$ to $2 / 47$ | Dimensions: <br> pages $2 / 48$ to $2 / 55$ |  |
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## Characteristics

## Control and signalling units Ø 22

Harmony ${ }^{\circledR}$ style 5
Pushbuttons, switches and pilot lights, with double insulated bezel

Characteristics of contact blocks (continued)


## Characteristics (continued)

## Control and signalling units Ø 22

Harmony® style 5<br>Pushbuttons, switches and pilot lights, with double insulated bezel

Characteristics of contact blocks (continued)

| Electrical characteristics (continued) |
| :--- |
| Rated operational characteristics <br> Conforming to IEC/EN 60947-5-1 | | a.c. supply: |
| :--- | :--- | :--- |
| utilisation category AC-15 |


| General: pages $2 / 0$ to $2 / 5$ | References: pages 2/10 to 2/47 | Dimensions: pages $2 / 48$ to $2 / 55$ |  |
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## Characteristics

## Control and signalling units Ø 22

Harmony® style 5
Pushbuttons, switches and pilot lights, with double insulated bezel

Characteristics of illuminated units (pilot lights, illuminated pushbuttons and illuminated switches)

| Mechanical characteristics | Conforming to IEC 68-2-6 | gn | Frequency: 12 to $500 \mathrm{~Hz}: 5$ |
| :--- | :--- | :--- | :--- |
| Vibration resistance | Conforming to IEC 68-2-27 | gn <br> gn | Half sine wave acceleration $11 \mathrm{~ms}: 50$ <br> Half sine wave acceleration $18 \mathrm{~ms}: 30$ |
| Shock resistance |  |  |  |


| Electrical characteristics |  |  |  |
| :---: | :---: | :---: | :---: |
| Cabling capacity | Conforming to IEC/EN 60947-1 | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | Screw clamp terminals <br> Min.: $1 \times 0.22$ without cable end ( $1 \times 0.34$ for linking) <br> Max.: $2 \times 1.5$ with cable end |
| Rated insulation voltage | Conforming to IEC/EN 60947-1 | $\begin{aligned} & \mathrm{V} \\ & \mathrm{v} \\ & \mathrm{v} \end{aligned}$ | Direct supply pilot light blocks (BA 9s bulb): $\mathrm{Ui}=250$ <br> degree of pollution 3 <br> Pilot light blocks with integral LED: Ui $=250$ degree of pollution 3 <br> Pilot light blocks with transformer: Ui $=600$ degree of pollution 3 |
| Rated impulse withstand voltage | Conforming to IEC/EN 60947-1 | $\begin{aligned} & \mathrm{kV} \\ & \mathrm{kV} \\ & \mathrm{kV} \end{aligned}$ | Direct supply pilot light blocks (BA 9s bulb): Uimp $=4$ <br> Pilot light blocks with integral LED: Uimp $=4$ <br> Pilot light blocks with transformer: Uimp $=6$ |

Specific characteristics of light modules only, with integral LED

| Voltage limits | Nominal voltage | V | $\begin{aligned} & 12 \mathrm{~V}: 10 \text { to } 15 \text { _-_; } 10.2 \text { to } 13.8 \sim \\ & 24 \mathrm{~V}: 19.2 \text { to } 30 \text { _-_; } 21.6 \text { to } 26.4 \sim \\ & 24 \text { to } 120 \mathrm{~V}: 20 \text { to } 132 \sim \\ & 48 \text { to } 12 \mathrm{~V}, 40 \text { to } 132 \sim \\ & 240 \mathrm{~V}: 195 \text { to } 264 \sim \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Current consumption | Applicable to all colours | $\begin{array}{\|l\|} \hline \mathrm{mA} \\ \mathrm{~mA} \\ \mathrm{~mA} \\ \mathrm{~mA} \\ \hline \end{array}$ | च 12 V supply blocks: 18 $\approx 24 \mathrm{~V}$ supply blocks: 18 ~ 120 V supply blocks: 14 ~ 240 V supply blocks: 14 |
| Service life | At nominal voltage and at an ambient temperature of $25^{\circ} \mathrm{C}$ | H | 100,000 |
| Surge withstand | Conforming to IEC 61000-4-5 | kV | 1 |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 2 |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3 | V/m | 10 |
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8/6 |
| Direct parallel connection across inductive load E.g.: contactor coil or solenoid | Maximum power of load | VA | For applications involving high powers ( $\geq 30 \mathrm{VA}$ ), a ZBZ-V• LED suppressor must be connected across the light block terminals (see page $2 / 33$ ) |
| Electromagnetic emission | Conforming to EN 55011 |  | Class B |

## Specific characteristics

Body/fixing collar

| Tightening torque of fixing screw |  | N.m | 0.8 (1.2 max.) |  |
| :---: | :---: | :---: | :---: | :---: |
| Hour counters and annunciators |  |  |  |  |
| Voltage limits | Hour counter and annunciator | v | $\pm 10 \%$ of the nominal voltage |  |
| Current consumption | Hour counter | mA | XB5-DSB ( $\sim 12$ to 24 V ): 7 to 15 <br> XB5-DSG (~ 120 V ): 8 <br> XB5-DSM (~ 230 to 240 V ): 8 |  |
|  | Annunciator | mA | 5 |  |
| General: pages $2 / 0$ to $2 / 5$ | References: Dimensions: <br> pages $2 / 10$ to $2 / 47$ pages $2 / 48$ to $2 / 55$ |  |  |  |
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