

## Main

|                               |                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Harmony XB4                                                                                                                                                                                            |
| Product or component type     | Complete body/contact assembly and light block                                                                                                                                                         |
| Device short name             | ZB4                                                                                                                                                                                                    |
| Fixing collar material        | Zamak                                                                                                                                                                                                  |
| Sale per indivisible quantity | 1                                                                                                                                                                                                      |
| Head type                     | Standard                                                                                                                                                                                               |
| Contacts type and composition | 1 NO + 1 NC                                                                                                                                                                                            |
| Contact operation             | Slow-break                                                                                                                                                                                             |
| Connections - terminals       | Screw clamp terminals: $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN 60947-1<br>Screw clamp terminals: $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN 60947-1 |
| Light source                  | Protected LED                                                                                                                                                                                          |
| Bulb base                     | Integral LED                                                                                                                                                                                           |
| Light block supply            | Direct                                                                                                                                                                                                 |
| Light source colour           | Orange                                                                                                                                                                                                 |
| [Us] rated supply voltage     | 110...120 V AC, 50/60 Hz                                                                                                                                                                               |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                           | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAD overall height                          | 1.85 in (47 mm)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1               | (11-12)NC                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product weight                              | 0.16 lb(US) (0.074 kg)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Contacts usage                              | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Positive opening                            | With positive opening conforming to EN/IEC 60947-5-1 appendix K                                                                                                                                                                                                                                                                                                                                                                          |
| Operating travel                            | 0.06 in (1.5 mm) (NC changing electrical state)<br>0.1 in (2.6 mm) (NO changing electrical state)<br>0.17 in (4.3 mm) (total travel)                                                                                                                                                                                                                                                                                                     |
| Operating force                             | 2 N (NC changing electrical state)<br>2.3 N (NO changing electrical state)                                                                                                                                                                                                                                                                                                                                                               |
| Operating torque                            | 0.44 lbf.in (0.05 N.m) (NO changing electrical state)                                                                                                                                                                                                                                                                                                                                                                                    |
| Mechanical durability                       | 5000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tightening torque                           | 7.08...10.62 lbf.in (0.8...1.2 N.m) conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                                                                             |
| Shape of screw head                         | Cross head compatible with Philips no 1 screwdriver<br>Cross head compatible with pozidriv No 1 screwdriver<br>Slotted head compatible with flat $\varnothing 4 \text{ mm}$ screwdriver<br>Slotted head compatible with flat $\varnothing 5.5 \text{ mm}$ screwdriver                                                                                                                                                                    |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Short-circuit protection                    | 10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage               | 600 V (degree of pollution: 3) conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ie] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1                                                           |
| Electrical durability                       | 1000000 cycles, AC-15, 2 A at 230 V, operating rate: $\leq 3600 \text{ cyc/h}$ , load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A at 120 V, operating rate: $\leq 3600 \text{ cyc/h}$ , load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A at 24 V, operating rate: $\leq 3600 \text{ cyc/h}$ , load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |

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|                        |                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: ≤ 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: ≤ 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |
| Electrical reliability | $\Lambda < 10\text{exp}(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                   |
| Signalling type        | Steady                                                                                                                                                                                                                                                            |
| Current consumption    | 14 mA                                                                                                                                                                                                                                                             |
| Service life           | 100000 h at rated voltage and 25 °C                                                                                                                                                                                                                               |
| Surge withstand        | 1 kV conforming to IEC 61000-4-5                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| protective treatment                  | TH                                                                                                                                                                     |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)                                                                                                                                             |
| ambient air temperature for operation | -40...158 °F (-40...70 °C)                                                                                                                                             |
| electrical shock protection class     | Class I conforming to IEC 60536                                                                                                                                        |
| standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>JIS C 4520<br>UL 508<br>CSA C22.2 No 14                                                  |
| product certifications                | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listed                                                                                      |
| vibration resistance                  | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                      |
| shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |
| resistance to fast transients         | 2 kV conforming to IEC 61000-4-4                                                                                                                                       |
| resistance to electromagnetic fields  | 9.14 V/yd (10 V/m) conforming to IEC 61000-4-3                                                                                                                         |
| resistance to electrostatic discharge | 6 kV on contact (on metal parts) conforming to IEC 61000-2-6<br>8 kV in free air (in insulating parts) conforming to IEC 61000-2-6                                     |
| electromagnetic emission              | Class B conforming to IEC 55011                                                                                                                                        |

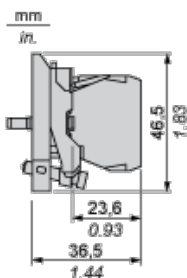
## Offer Sustainability

|                                                                                                                                  |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| WARNING: This product can expose you to chemicals including:                                                                     | WARNING: This product can expose you to chemicals including:                                                                     |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

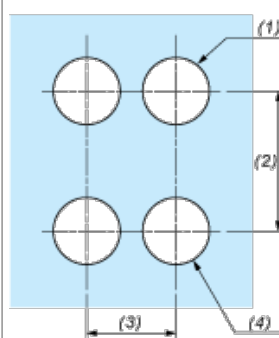
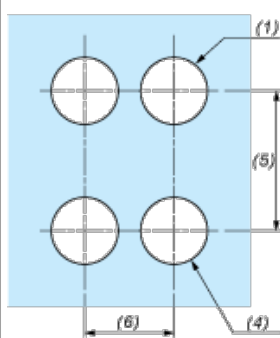
## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions



Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                                                                       | Connection by Faston Connectors                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                            |  |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                                                                    |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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