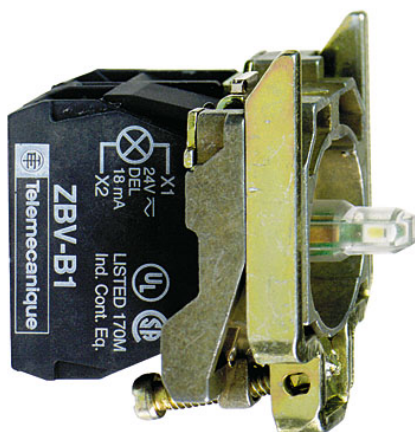


# ZB4BW0B35

green light block with body/fixing collar with  
integral LED 24V 1NO+1NC



## 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                                                                                                                                                                                                        |
| Contacts type and composition | 1 NO + 1 NC                                                                                                                                                                                              |
| Contacts operation            | Slow-break                                                                                                                                                                                               |
| Connections - terminals       | Screw clamp terminals : $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN 60947-1<br>Screw clamp terminals : $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN 60947-1 |
| Light source                  | Protected LED                                                                                                                                                                                            |
| Bulb base                     | Integral LED                                                                                                                                                                                             |
| Light block supply            | Direct                                                                                                                                                                                                   |
| Light source colour           | Green                                                                                                                                                                                                    |
| [Us] rated supply voltage     | 24 V AC/DC , 50/60 Hz                                                                                                                                                                                    |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product weight                              | 0.074 kg                                                                                                                                                                                                                                                                                                                                                                                   |
| Contacts usage                              | Standard                                                                                                                                                                                                                                                                                                                                                                                   |
| Positive opening                            | With positive opening conforming to EN/IEC 60947-5-1 appendix K                                                                                                                                                                                                                                                                                                                            |
| Operating travel                            | 1.5 mm (NC changing electrical state)<br>2.6 mm (NO changing electrical state)<br>4.3 mm (total travel)                                                                                                                                                                                                                                                                                    |
| Operating force                             | 2 N (NC changing electrical state)<br>2.3 N (NO changing electrical state)                                                                                                                                                                                                                                                                                                                 |
| Operating torque                            | 0.05 N.m (NO changing electrical state)                                                                                                                                                                                                                                                                                                                                                    |
| Mechanical durability                       | 5000000 cycles                                                                                                                                                                                                                                                                                                                                                                             |
| Tightening torque                           | 0.8...1.2 N.m conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                                                     |
| Shape of screw head                         | Cross head compatible with pozidriv No 1 screwdriver<br>Cross head compatible with Philips 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              | 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<br>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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability                | 1000000 cycles , AC-15 , 4 A at 24 V , operating rate: 3600 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: 3600 cyc/h , load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles , AC-15 , 2 A at 230 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<br>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 |
| Electrical reliability IEC 60947-5-4 | $\Lambda < 10\exp(-6)$ at 5 V , 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V , 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Signalling type                      | Steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supply voltage limits                | 19.2...30 V DC<br>21.6...26.4 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Current consumption                  | 18 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Service life                         | 100000 h at rated voltage and 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Surge withstand                      | 1 kV conforming to IEC 61000-4-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

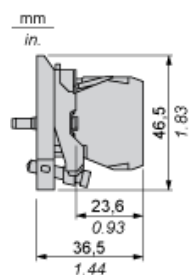
## Environment

|                                            |                                                                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                       | TH                                                                                                                                                   |
| Ambient air temperature for storage        | -40...70 °C                                                                                                                                          |
| Ambient air temperature for operation      | -25...70 °C                                                                                                                                          |
| Class of protection against electric shock | Class I conforming to IEC 60536                                                                                                                      |
| Standards                                  | CSA C22-2 No 14<br>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                                |
| Product certifications                     | BV<br>CSA<br>DNV (Det Norske Veritas)<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 for 18 ms half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn for 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       | 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                                                                                                                      |
| RoHS EUR conformity date                   | 0727                                                                                                                                                 |
| RoHS EUR status                            | Compliant                                                                                                                                            |

## Dimensions of Bodies for Illuminated Pushbuttons and Selector Switches

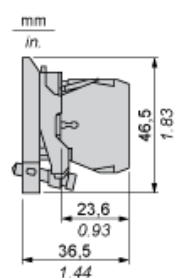
### Screw Clamp Terminal Connections, Integral LED

ZB4 BW0...



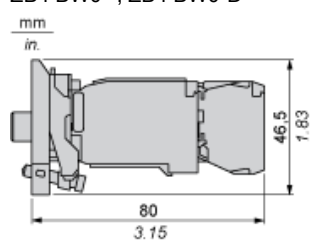
### Screw Clamp Terminal Connections, Direct Supply, BA9s Bulb

ZB4 BW06•



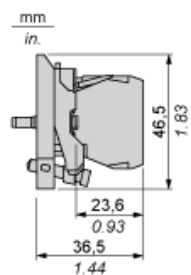
### Screw Clamp Terminal Connections, Via Integral Transformer, BA9s Bulb

ZB4 BW0••, ZB4 BW0•D••



### Plug-in Connector, Integral LED

ZB4 BW0...4



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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                            |                                 |
| <div> <div>(1) Diameter on finished panel or support</div> <div>(2) 40 mm min. / 1.57 in. min.</div> <div>(3) 30 mm min. / 1.18 in. min.</div> <div>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>)</div> <div>(5) 45 mm min. / 1.78 in. min.</div> <div>(6) 32 mm min. / 1.26 in. min.</div> </div> |                                 |