

Harmony XB5, Illuminated push button, plastic, flush, green, Ø22, spring return, 24 V AC/DC, 1 NO + 1 NC

XB5AW33B5

#### Main

IVIAIII	
Range of product	Harmony XB5
Product or component type	Illuminated push-button
Device short name	XB5
Bezel material	Dark grey plastic
Fixing collar material	Plastic
Head type	Standard
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	spring return
Operator profile	Green flush, unmarked
Operator additional information	With plain lens
Contacts type and composition	1 NO + 1 NC
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, 1 x 0.222 x 2.5 mm² without cable end conforming to EN/IEC 60947-1
Light source	Protected LED
Bulb base	Integral LED
[Us] rated supply voltage	24 V AC/DC 50/60 Hz
[Us] rated supply voltage	24 V
Cap/Operator or lens colour	Green

## Complementary

Height	42 mm
Width	30 mm
Depth	57 mm
Terminals description ISO n°1	(21-22)NC (13-14)NO
Net weight	0.056 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m

Contacts usage	Standard contacts			
Positive opening	With conforming to EN/IEC 60947-5-1 appendix K			
Operating travel	1.5 mm (NC changing electrical state) 2.6 mm (NO changing electrical state) 4.3 mm (total travel)			
Operating force	3.5 N NC changing electrical state 3.8 N			
Mechanical durability	10000000 cycles			
Tightening torque	0.81.2 N.m conforming to EN 60947-1			
Shape of screw head	Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted compatible with flat Ø 5.5 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 (pollution degree 3) conforming to EN/IEC 60947-1			
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1			
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 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 <3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 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 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 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 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	$\Lambda$ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda$ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4			
Signalling type	Steady			
Supply voltage limits	19.230 V DC 21.626.4 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			
Device presentation	Complete product			
Environment				
Protective treatment	TH			
Ambient air temperature for storage	-4070 °C			
Ambient air temperature for operation	-4070 °C			
Overvoltage category	Class II conforming to IEC 60536			
IP degree of protection	IP66 conforming to IEC 60529 IP69 IP69K IP67			
NEMA degree of protection	NEMA 13			

IK degree of protection	IK05 conforming to IEC 50102					
Product certifications	UL listed					
	GL CSA					
	LROS (Lloyds register of shipping) DNV					
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6					
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27					
Resistance to fast transients	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27					
	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 61000-4-2 8 kV in free air (in insulating parts) conforming to IEC 61000-4-2					
Electromagnetic emission	Class B conforming to IEC 55011					
Packing Units						
Unit Type of Package 1	PCE					
Number of Units in Package 1	1					
Package 1 Weight	55.56 g					
Package 1 Height	3.5 cm					
Package 1 width	5.5 cm					
Package 1 Length	8.5 cm					
Unit Type of Package 2	S03					
Number of Units in Package 2	100					
Package 2 Weight	6.003 kg					
Package 2 Height	30 cm					
Package 2 width	30 cm					
Package 2 Length	40 cm					
Unit Type of Package 3	P06					
Number of Units in Package 3	800					
Package 3 Weight	56.024 kg					
Package 3 Height	75 cm					
Package 3 width	80 cm					
Package 3 Length	60 cm					
Offer Sustainability						
Offer Sustainability Sustainable offer status	Green Premium product					
REACh Regulation	REACh Declaration					
REACh free of SVHC	Yes					
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration					
Mercury free	Yes					
RoHS exemption information	Yes					
China RoHS Regulation	China RoHS declaration					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	End of Life Information					

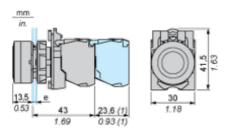
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

# **Product data sheet**

# **XB5AW33B5**

**Dimensions Drawings** 

### **Dimensions**

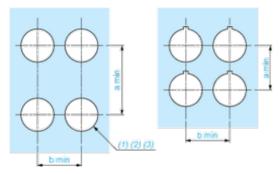


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in. (1) Additional row of contacts or double contact.

Mounting and Clearance

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

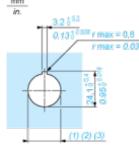
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- **(3)** Ø22.5 mm recommended (Ø22.3  $_{0}^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_{0}^{+0.016}$ )

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

#### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )