# Product datasheet Characteristics

# XB5AW31G5

white flush complete illum pushbutton Ø22 spring return 1NO+1NC 110...120V



#### Main

Range of product	Harmony XB5
Product or component type	Complete illuminated push-button
Device short name	XB5
Bezel material	Plastic
Fixing collar material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	White 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	110120 V AC, 50/60 Hz

#### Complementary

- Compression y		
Height	42 mm	
Width	30 mm	
Depth	57 mm	
Terminals description ISO n°1	(21-22)NC (13-14)NO	
Product 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 positive opening 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 head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Slotted head 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 (degree of pollution: 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	100132 V AC			
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	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Overvoltage category	Class II conforming to IEC 60536	
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK05 conforming to IEC 50102	
Standards	EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 UL 508 JIS C 4520 EN/IEC 60947-5-1	
Product certifications	RINA UL listed CSA	

	BV LROS (Lloyds register of shipping) DNV GL	
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 50 gn (duration = 11 ms) for 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 61000-4-2 8 kV in free air (in insulating parts) conforming to IEC 61000-4-2	
Electromagnetic emission	Class B conforming to IEC 55011	

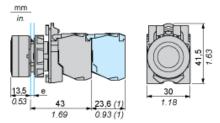
### Contractual warranty

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

# Product datasheet **Dimensions Drawings**

# XB5AW31G5

### Dimensions



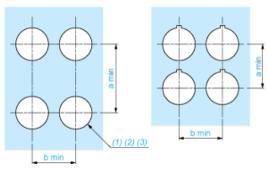
clamping thickness: 1 to 6 mm / 0.04 to 0.24 in. Additional row of contacts or double contact.

e: (1)

## XB5AW31G5

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

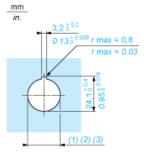
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  $\varnothing$ 22.5 mm recommended ( $\varnothing$ 22.3  $_0$  <sup>+0.4</sup>) /  $\varnothing$ 0.89 in. recommended ( $\varnothing$ 0.88 in.  $_0$  <sup>+0.016</sup>)
- (2) (3)

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**



- Diameter on finished panel or support
- (2) (3) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0$  <sup>+0.4</sup>) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0$  <sup>+0.016</sup>)