



Illuminated push button, Harmony XB5, plastic, orange flush, 22mm, universal LED, plain lens, 1NO + 1NC, 24V AC/DC

XB5AW35B5

### Main

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	Orange 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	Universal LED	
Bulb base	Integral LED	
[Us] rated supply voltage	24 V AC/DC 50/60 Hz	
Cap/Operator or lens colour	Orange	

### Complementary

Height	42 mm	
Width	30 mm	
Depth	57 mm	
Terminals description ISO n°1	(13-14)NO (21-22)NC	
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 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	тн				
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 NEMA 4X				
IK degree of protection	IK05 conforming to IEC 50102				

Standards	UL 508 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-5-1 JIS C8201-1				
Product certifications	UL listed GL LROS (Lloyds register of shipping) DNV CSA BV				
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				
Packing Units					
Unit Type of Package 1	PCE				
Number of Units in Package 1	1				
Package 1 Height	3.500 cm				
Package 1 Width	5.500 cm				
Package 1 Length	8.500 cm				
Package 1 Weight	55.400 g				
Unit Type of Package 2	S02				
Number of Units in Package 2	50				
Package 2 Height	15.000 cm				
Package 2 Width	30.000 cm				
Package 2 Length	40.000 cm				
Package 2 Weight	3.014 kg				
Unit Type of Package 3	P06				
Number of Units in Package 3	800				
Package 3 Height	75.000 cm				
Package 3 Width	80.000 cm				
Package 3 Length	60.000 cm				
Package 3 Weight	56.217 kg				
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				
China RoHS Regulation	China RoHS declaration				

RoHS exemption information	Yes		
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		
Contractual warranty			

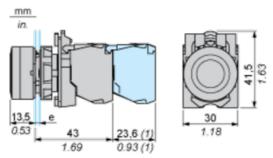
Warranty 18 months

# **Product datasheet**

# **XB5AW35B5**

**Dimensions Drawings** 

### **Dimensions**

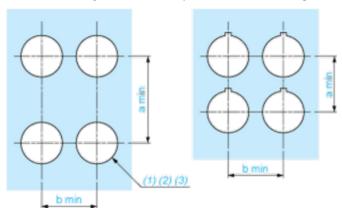


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in. (1) Additional row of contacts or double contact.

Mounting and Clearance

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

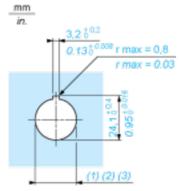
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

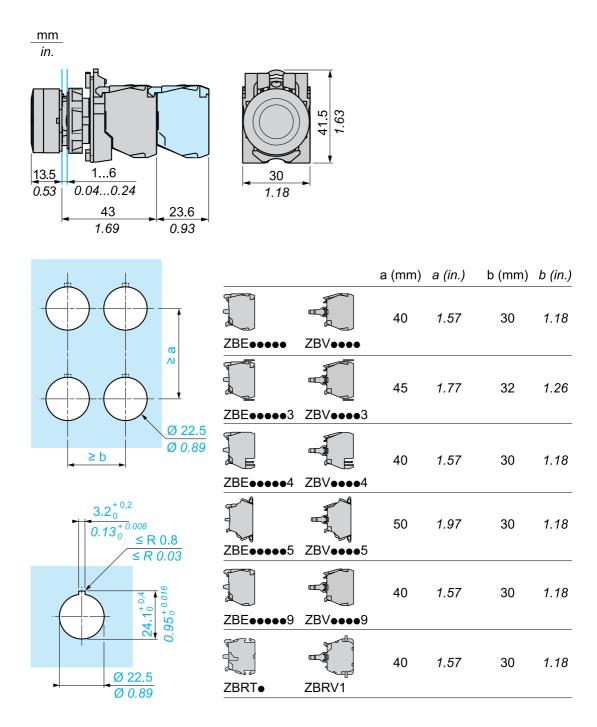
### **Detail of Lug Recess**



- (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.  $_0^{+0.016}$ )

**Technical Illustration** 

#### **Dimensions**



Recommended replacement(s)