



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

XB5AW35B5

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

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
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 \emptyset 4 mm screwdriver Slotted compatible with flat \emptyset 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	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 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 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

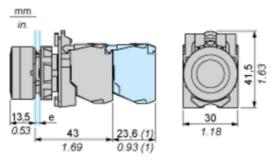
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which known to the State of California to cause cancer and birth defects or other reproductive harm. For minformation go to www.P65Warnings.ca.gov	
Contractual warranty		
Warranty	18 months	

Product data sheet

XB5AW35B5

Dimensions Drawings

Dimensions



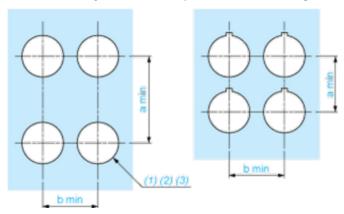
 $\boldsymbol{e}\text{:}$ clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

(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)

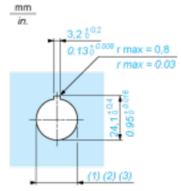
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

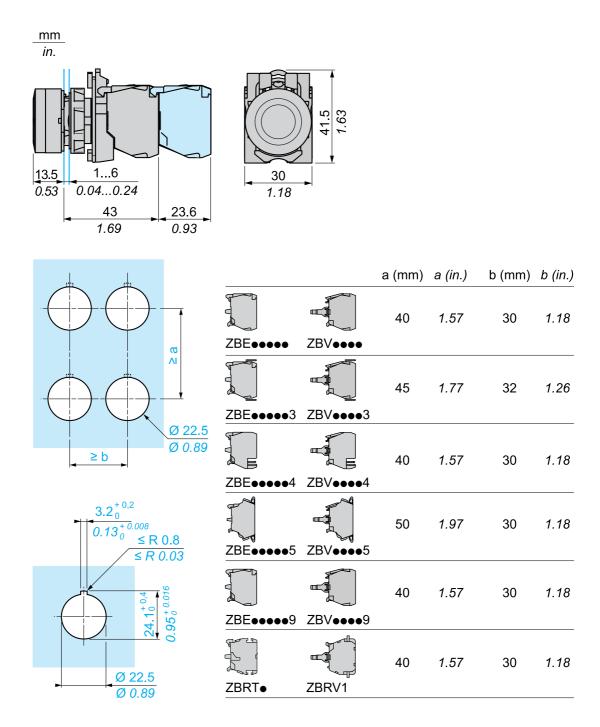
Detail of Lug Recess



- (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)