Specifications



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

XB5AW31B5

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	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 mm ² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, 1 x 0.222 x 2.5 mm ² 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	White

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



Disclaimer: 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

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	1000000 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, 0.2 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	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	
K degree of protection	IK05 conforming to IEC 50102	
Standards	EN/IEC 60947-1	
	UL 508	
	EN/IEC 60947-5-1	
	CSA C22.2 No 14	
	JIS C8201-5-1 EN/IEC 60947-5-4	
	JIS C8201-1	
Product certifications	GL	
	DNV	
	CSA	
	BV	
	UL listed	
	LROS (Lloyds register of shipping)	
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	6 kV on contact (on metal parts) conforming to IEC 61000-4-2	
discharge	8 kV in free air (in insulating parts) conforming to IEC 61000-4-2	
Electromagnetic emission	Class B conforming to IEC 55011	

Packing Units

5	
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	S03
Number of Units in Package 2	100
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.969 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	55.752 kg

Offer Sustainability

Sustainable offer status	Green Premium product REACh Declaration		
REACh Regulation			
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		

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 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					

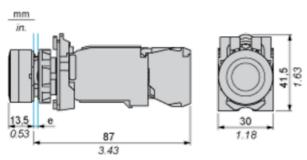
Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions



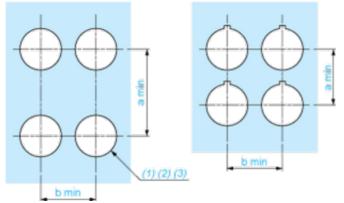
e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

XB5AW31B5

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



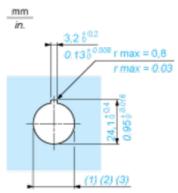
(1) Diameter on finished panel or support

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.

(3) \emptyset 22.5 mm recommended (\emptyset 22.3 $_{0}^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 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



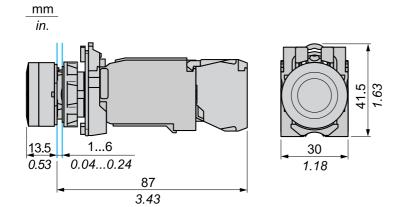
(1) Diameter on finished panel or support

(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



			a (mm)	a (in.)	b (mm)	b (in.)
			40	1.57	30	1.18
σ	ZBE●●●●	ZBV●●●●				
			45	1.77	32	1.26
	ZBE••••3	ZBV●●●3				
Ø 22.5 Ø 0.89			40	1.57	30	1.18
	ZBE●●●●4	ZBV●●●4				
$3.2_{0}^{+0.2}$ $0.13_{0}^{+0.008} \leq R \ 0.8$ $\leq R \ 0.03$	ZBE••••5	ZBV••••5	50	1.97	30	1.18
24.1 ^{°0.4} 0.95 ^{°0.0016}			40	1.57	30	1.18
	ZBE••••9	ZBV••••9				
Ø 22.5			40	1.57	30	1.18
▶ Ø 22.5 Ø 0.89	ZBRT•	ZBRV1				

Recommended replacement(s)

Life Is On Schneider