Product datasheet Characteristics

XB5AL73415

green flush/red projecting double-headed pushbutton Ø22 with marking



Main

Range of product	Harmony XB5				
Product or component type	Complete double-headed push-button				
Device short name	XB5				
Bezel material	Plastic				
Fixing collar material	Plastic				
Mounting diameter	22 mm				
Shape of signaling unit head	Rectangular				
Type of operator	Spring return				
Operator profile	1 flush - 1 projecting push-buttons				
Operators description	Green "I" - red "O"				
Contacts type and composition	1 NO + 1 NC				
Contacts operation	Slow-break				
Connections - terminals	Screw clamp terminals : $<= 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1 Screw clamp terminals : $>= 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 Spring terminals : $<= 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1 Spring terminals : $>= 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1				

Complementary

Main				
Range of product	Harmony XB5			
Product or component type	Complete double-headed push-button			
Device short name	XB5			
Bezel material	Plastic			
Fixing collar material	Plastic			
Mounting diameter	22 mm			
Shape of signaling unit head	Rectangular			
Type of operator	Spring return			
Operator profile	1 flush - 1 projecting push-buttons			
Operators description	Green "I" - red "O"			
Contacts type and composition	1 NO + 1 NC			
Contacts operation	Slow-break			
Connections - terminals	Screw clamp terminals : $<= 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1 Screw clamp terminals : $>= 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 Spring terminals : $<= 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1 Spring terminals : $>= 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1			
Complementary				
Height	50 mm			
Width	30 mm			
Depth	59 mm			
Terminals description ISO n°1	(13-14)NO (21-22)NC			
Product weight	0.053 kg			
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m			
Colour of marking	White marking when green, red or black caps Black marking when white caps			
Operator profile	Green flush, white I Red projecting, white O			

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 (NO changing electrical state)				
Mechanical durability	1000000 cycles				
Tightening torque	0.81.2 N.m conforming to EN 60947-1				
Shape of screw head	Cross head compatible with JIS No 1 screwdriver 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 60947-1				
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 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, 4 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 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 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 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 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				
Electrical reliability IEC 60947-5-4	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				

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 conforming to IEC 60529 IP69K		
NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK03 conforming to IEC 50102		
Standards	EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C 4520 EN/IEC 60947-5-4 CSA C22.2 No 14 UL 508		
Product certifications	RINA BV LROS (Lloyds register of shipping) DNV CSA UL listed 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		
Contractual warranty			

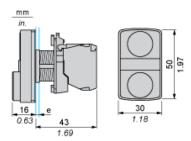
18 months

Warranty period

eet XB5AL73415

Product datasheet Dimensions Drawings

Dimensions

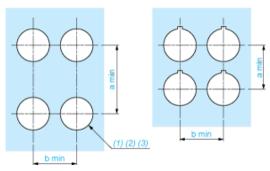


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

XB5AL73415

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

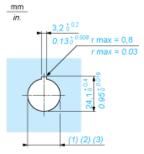
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- 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 $_0$ ^{+0.4}) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0$ ^{+0.016}) (2)

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
- 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 $_0$ ^{+0.4}) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0$ ^{+0.016})