## XB5AL73415

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



Main				
Commercial Status	Commercialised			
Range of product	Harmony XB5			
Product or component type	Complete double-headed pushbutton			
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 pushbuttons			
Operators description	Green "I" - red "O"			
Contacts type and composition	1 NO + 1 NC			
Contacts operation	Slow-break			
Connections - terminals	Spring terminals: >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1  Spring terminals: <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1  Screw clamp terminals: >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1  Screw clamp terminals: <= 2 x 1.5 mm² with 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	Black marking when white caps White marking when green, red or black caps				
Operator profile	Red projecting, white O Green flush, white I				
Contacts usage	Standard contacts				
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K				
Operating travel	<ul><li>4.3 mm (total travel)</li><li>2.6 mm (NO changing electrical state)</li><li>1.5 mm (NC changing electrical state)</li></ul>				
Operating force	3.8 N (NO changing electrical state) 3.5 N (NC changing electrical state)				
Mechanical durability	1000000 cycles				
Tightening torque	0.81.2 N.m conforming to EN 60947-1				
Shape of screw head	Slotted head compatible with flat Ø 5.5 mm screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Cross head compatible with pozidriv No 1 screwdriver Cross head compatible with Philips no 1 screwdriver Cross head compatible with JIS No 1 screwdriver				
Contacts material	Silver alloy (Ag/Ni)				
Short circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1				

[lth] 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	1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.55 A at 125 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 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1				
Electrical durability	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 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, 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, 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, 2 A at 230 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C				
Electrical reliability IEC 60947-5-4	$\Lambda$ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda$ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4				

## Environment

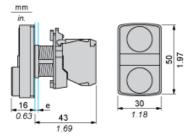
Protective treatment	TH				
Ambient air temperature for storage	-4070 °C				
Ambient air temperature for operation	-2570 °C				
Class of protection against electric shock	Class II conforming to IEC 60536				
IP degree of protection	IP69 K conforming to IEC 60529 IP66 conforming to IEC 60529				
NEMA degree of protection	NEMA 4X NEMA 13				
IK degree of protection	IK03 conforming to IEC 50102				
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 CSA C22.2 No 14				
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27				



# Product data sheet Dimensions Drawings

## XB5AL73415

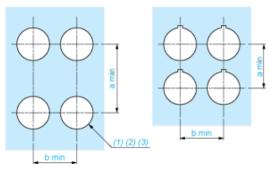
## **Dimensions**



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

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

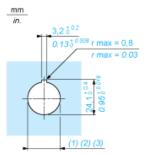
## Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. 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
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)