

XB5AW34B5

red flush complete illum pushbutton Ø22 spring
return 1NO+1NC 24V



Main

Range of product	Harmony XB5
Product or component type	Complete illuminated push-button
Device short name	XB5
Bezel material	Plastic
Fixing collar material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Operator additional information	With plain lens
Contacts type and composition	1 NO + 1 NC
Contacts operation	Slow-break
Light source	Protected LED
Bulb base	Integral LED

Complementary

Height	42 mm
Width	30 mm
Depth	57 mm
Product weight	0.056 kg
Terminals description ISO n°1	(13-14)NO (21-22)NC
Contacts usage	Standard contacts
Mechanical durability	5000000 cycles
Contacts material	Silver alloy (Ag/Ni)
Signalling type	Steady
Current consumption	18 mA

Environment

Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3
Class of protection against electric shock	Class II conforming to IEC 60536
Electromagnetic emission	Class B conforming to IEC 55011
IK degree of protection	IK05 conforming to IEC 50102
IP degree of protection	IP66 conforming to IEC 60529
Resistance to fast transients	2 kV conforming to IEC 61000-4-4
Vibration resistance	5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6
NEMA degree of protection	NEMA 13 NEMA 4X
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
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
Protective treatment	TH
Ambient air temperature for storage	-40.0 °C...70.0 °C

Ambient air temperature for operation	-25.0 °C...70.0 °C
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

Electrical

Surge withstand	1 kV conforming to IEC 61000-4-5
Short circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
[I _{th}] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1
[U _s] rated supply voltage	24 V AC/DC, 50/60 Hz
[U _{imp}] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
[U _i] rated insulation voltage	600 V (degree of pollution: 3) conforming to EN/IEC 60947-1
Supply voltage limits	19.2...30 V DC 21.6...26.4 V AC
[I _e] 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

Performance

Service life	100000 h at rated voltage and 25 °C
Electrical reliability IEC 60947-5-4	$\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4
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

Connections

Connections - terminals	Screw clamp terminals: $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1 Screw clamp terminals: $1 \times 0.22...2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1
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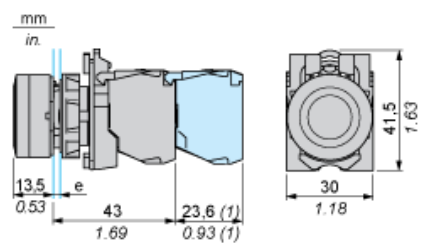
Functional

Type of operator	Spring return
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K
Operator profile	Red flush unmarked
Operating force	3.5 N (NC changing electrical state) 3.8 N
Operating travel	1.5 mm (NC changing electrical state) 2.6 mm (NO changing electrical state) 4.3 mm (total travel)

Physical characteristics

Tightening torque	0.8...1.2 N.m conforming to EN 60947-1
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
Shape of screw head	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

Dimensions



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

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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

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) $\varnothing 22.5$ mm recommended ($\varnothing 22.3 \text{ }_0^{+0.4}$) / $\varnothing 0.89$ in. recommended ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)