Product data sheet Characteristics

XB5AK125B5

orange complete illuminated selector switch Ø22 2-position stay put 1NO+1NC 24V



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Range of product	Harmony XB5
Product or component type	Complete illuminated selector switch
Device short name	XB5
Bezel material	Plastic
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Orange standard handle
Operator position information	2 positions 90°
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 0.22 mm² without cable end conforming to EN/IEC 60947-1
Bulb base	Integral LED
[Us] rated supply voltage	24 V AC/DC, 50/60 Hz

Complementary

Range of product	Harmony XB5
Product or component type	Complete illuminated selector switch
Device short name	XB5
Bezel material	Plastic
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Orange standard handle
Operator position information	2 positions 90°
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 0.22 mm² without cable end conforming to EN/IEC 60947-1
D	Integral LED
Bulb base	integral ELD
[Us] rated supply voltage	24 V AC/DC, 50/60 Hz
[Us] rated supply voltage Complementary	24 V AC/DC, 50/60 Hz
[Us] rated supply voltage Complementary Height	24 V AC/DC, 50/60 Hz 1.65 in (42 mm)
[Us] rated supply voltage Complementary Height Width	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm)
[Us] rated supply voltage Complementary Height Width Depth	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC 1.14 lb(US) (0.516 kg)
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1 Product weight Resistance to high pressure washer	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC 1.14 lb(US) (0.516 kg) 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1 Product weight Resistance to high pressure washer Contacts usage	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC 1.14 lb(US) (0.516 kg) 1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m Standard contacts
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1 Product weight Resistance to high pressure washer Contacts usage Positive opening	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC 1.14 lb(US) (0.516 kg) 1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m Standard contacts With positive opening conforming to EN/IEC 60947-5-1 appendix K
[Us] rated supply voltage Complementary Height Width Depth Terminals description ISO n°1 Product weight Resistance to high pressure washer Contacts usage Positive opening Operating torque	24 V AC/DC, 50/60 Hz 1.65 in (42 mm) 1.18 in (30 mm) 2.76 in (70 mm) (13-14)NO (11-12)NC 1.14 lb(US) (0.516 kg) 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m Standard contacts With positive opening conforming to EN/IEC 60947-5-1 appendix K 1.24 lbf.in (0.14 N.m) (NO changing electrical state)

	Slotted head compatible with flat \emptyset 4 mm screwdriver Slotted head 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
[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	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
Light source	Protected LED
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

1 kV conforming to IEC 61000-4-5

Environment

Surge withstand

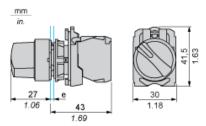
Protective treatment	TH
Ambient air temperature for storage	-40158 °F (-4070 °C)
Ambient air temperature for operation	-40158 °F (-4070 °C)
Electrical shock protection class	Class II conforming to IEC 60536
IP degree of protection	IP69 IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	UL 508 JIS C 4520 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-4
Product certifications	RINA BV GL LROS (Lloyds register of shipping) UL CSA DNV
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) 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	9.14 V/yd (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

Product data sheet Dimensions Drawings

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Dimensions

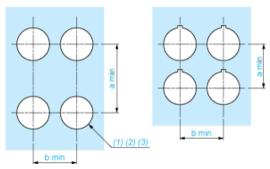


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

XB5AK125B5

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

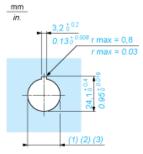
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- 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) (3)

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
- (2) 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. $_0$ $^{+0.016}$)

Product Life Status	END OF COMMERCIALIZATION	