# **Product datasheet**

Specifications





Illuminated pushbutton, Harmony XB5N XB7N, plastic, flush, white, 22mm, spring return, 230V AC, 1 NO

XB5AW31M1N

#### Main

Light Source LED   Bulb Base Integral LED   Light Block Supply Direct   [Us] Rated Supply Voltage 220240 V AC 50/60 Hz			
Device Short Name   XB5N     Bezel Material   Dark grey plastic     Fixing Collar Material   Plastic     Mounting Diameter   22.5 mm     Sale Per Indivisible Quantity   20     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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 Screw clamp	ange Of Product	Harmony XB5N/XB7N	
Bezel Material   Dark grey plastic     Fixing Collar Material   Plastic     Mounting Diameter   22.5 mm     Sale Per Indivisible Quantity   20     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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947.1 Sc	roduct Or Component Type	Illuminated push-button	
Fixing Collar Material   Plastic     Mounting Diameter   22.5 mm     Sale Per Indivisible Quantity   20     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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947     Light Source   LED     Bulb Base   Integral LED     Light Block Supply   Direct     [Us] Rated Supply Voltage   220240 V AC 50/60 Hz	evice Short Name	XB5N	
Mounting Diameter   22.5 mm     Sale Per Indivisible Quantity   20     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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 6094     Light Source   LED     Bulb Base   Integral LED     Light Block Supply   Direct     [Us] Rated Supply Voltage   220240 V AC 50/60 Hz	ezel Material	Dark grey plastic	
Sale Per Indivisible Quantity   20     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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 6094     Light Source   LED     Bulb Base   Integral LED     Light Block Supply   Direct     [Us] Rated Supply Voltage   220240 V AC 50/60 Hz	xing Collar Material	Plastic	
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     Contact Operation   Slow-break     Connections - Terminals   Screw clamp terminal, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm² without cable end conforming to IEC 60947     Light Source   LED     Bulb Base   Integral LED     Light Block Supply   Direct     [Us] Rated Supply Voltage   220240 V AC 50/60 Hz	ounting Diameter	22.5 mm	
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Light Source   LED     Bulb Base   Integral LED     Light Block Supply   Direct     [Us] Rated Supply Voltage   220240 V AC 50/60 Hz	ontact Operation	Slow-break	
Bulb Base Integral LED   Light Block Supply Direct   [Us] Rated Supply Voltage 220240 V AC 50/60 Hz	onnections - Terminals	Screw clamp terminal, <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to IEC 60947-1 Screw clamp terminal, >= 1 x 0.22 mm <sup>2</sup> without cable end conforming to IEC 60947-1	
Light Block Supply Direct   [Us] Rated Supply Voltage 220240 V AC 50/60 Hz	ght Source	LED	
[Us] Rated Supply Voltage     220240 V AC 50/60 Hz	ulb Base	Integral LED	
	ght Block Supply	Direct	
	Js] Rated Supply Voltage	220240 V AC 50/60 Hz	
Cap/Operator Or Lens Colour White	ap/Operator Or Lens Colour	White	

## Complementary

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Height	42 mm	
Width	30 mm	
Depth	57 mm	
Terminals Description Iso N°1	(13-14)NO	
Net Weight	0.056 kg	
Device Mounting	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to IEC 60947-5-1	
Fixing Mode	Fixing nut recommended torque: 2.2 N.m (+/- 0.2 N.m)	
Marking	Unmarked	
Contacts Usage	Standard contacts	

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Operating Travel	<ul><li>1.5 mm (NC changing electrical state)</li><li>2.6 mm (NO changing electrical state)</li><li>4.3 mm (total travel)</li></ul>
Operating Force	3.5 N NC changing electrical state 3.8 N NO changing electrical state
Mechanical Durability	500000 cycles
Tightening Torque	0.81.2 N.m conforming to IEC 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 IEC 60947-5-1
[Ith] Conventional Free Air Thermal Current	10 A conforming to IEC 60947-5-1
[Ui] Rated Insulation Voltage	600 V (pollution degree 3) conforming to IEC 60947-1
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947-1
[le] Rated Operational Current	3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to 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 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 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 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 IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to 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 IEC 60947-5-1 appendix C
Electrical Reliability	$\Lambda$ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4 $\Lambda$ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4
Signalling Type	Steady
Supply Voltage Limits	195264 V AC
Current Consumption	14 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
Product Compatibility	ZB5N

### Environment

Protective Treatment	тн
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-2570 °C
Overvoltage Category	Class II conforming to IEC 60536
Standards	IEC 60947-5-4 IEC 60947-1 IEC 60947-5-1 IS 13947-5-1
Product Certifications	CE

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 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	
Ip Degree Of Protection	IP54	
Ik Degree Of Protection	IK03	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	4.2 cm
Package 1 Length	5.7 cm
Package 1 Weight	39.0 g
Unit Type Of Package 2	\$03
Number Of Units In Package 2	240
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm

# Sustainability Screen

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

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Guide to assess a product's sustainability >



RoHS/REACh

### Well-being performance

Mercury Free

Rohs Exemption Information

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins