

# Product data sheet

Specifications



**Illuminated selector switch, Harmony XB5, grey plastic, green handle, 30mm, universal LED, 2 positions, 1NO + 1NC, 230...240V AC**

XB5FK123M5

## Main

Range of product	Harmony XB5
Product or component type	Illuminated selector switch
Device short name	XB5F
Bezel material	Dark grey plastic
Head type	Built-in-flush
Mounting diameter	30.5 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	stay put
Operator profile	Green standard handle, unmarked
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 mm <sup>2</sup> with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm <sup>2</sup> without cable end conforming to EN/IEC 60947-1
Bulb base	Integral LED
[Us] rated supply voltage	230...240 V AC at 50/60 Hz

## Complementary

Height	42 mm
Width	36.6 mm
Depth	71 mm
Terminals description ISO n°1	(21-22)NC (13-14)NO
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m
Contacts usage	Standard contacts
Positive opening	With NC contact conforming to EN/IEC 60947-5-1 appendix K
Mechanical durability	1000000 cycles
Tightening torque	0.8...1.2 N.m conforming to EN 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
<b>Contacts material</b>	Silver alloy (Ag/Ni)
<b>Short-circuit protection</b>	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
<b>[I<sub>th</sub>] conventional free air thermal current</b>	10 A conforming to EN/IEC 60947-5-1
<b>[U<sub>ii</sub>] rated insulation voltage</b>	600 V (pollution degree 3) conforming to EN 60947-1
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV conforming to EN 60947-1
<b>[I<sub>e</sub>] rated operational current</b>	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
<b>Electrical durability</b>	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
<b>Electrical reliability</b>	Λ < 10 <sup>exp(-6)</sup> at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10 <sup>exp(-8)</sup> at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4
<b>Light source</b>	Universal LED
<b>Supply voltage limits</b>	195...264 V AC
<b>Device presentation</b>	Complete product

## Environment

<b>Protective treatment</b>	TH
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Ambient air temperature for operation</b>	-40...70 °C
<b>Electrical shock protection class</b>	Class II conforming to IEC 60536
<b>IP degree of protection</b>	IP66 conforming to IEC 60529 IP67 IP69 IP69K
<b>NEMA degree of protection</b>	NEMA 13 NEMA 4X
<b>IK degree of protection</b>	IK03 conforming to IEC 50102
<b>Standards</b>	EN/IEC 60947-1 UL 508 JIS C8201-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-1 CSA C22.2 No 14 JIS C8201-1
<b>Product certifications</b>	UL listed CSA
<b>Vibration resistance</b>	5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.57 cm
<b>Package 1 Width</b>	5.33 cm
<b>Package 1 Length</b>	9.14 cm
<b>Package 1 Weight</b>	0.06 kg

## Offer Sustainability

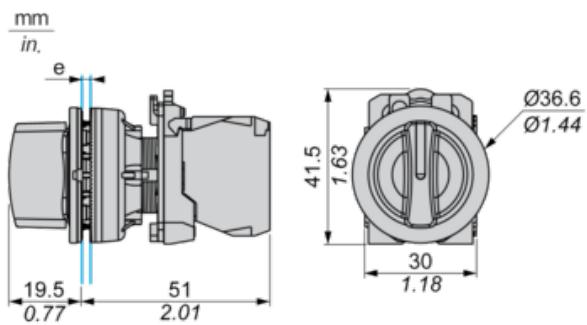
<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="#">www.P65Warnings.ca.gov</a>

## Contractual warranty

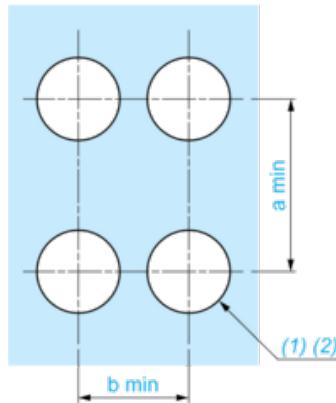
<b>Warranty</b>	18 months
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### Dimensions

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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**

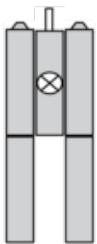
(1) Diameter on finished panel or support

(2) Ø30.75 mm recommended ( $\text{Ø}30.5^{+0.5}_0$ ) / Ø1.21 in. recommended ( $\text{Ø}1.20 \text{ in.}^{+0.0196}_0$ )

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	40	1.57
By Faston connectors	45	1.77	40	1.57

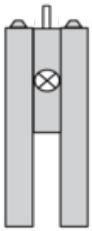
**Electrical Composition Corresponding to Code M3**

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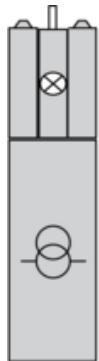
**Electrical Composition Corresponding to Code M4**

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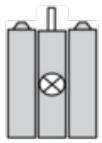
**Electrical Composition Corresponding to Codes M6 and P2**

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**Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2**

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### Legend

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Single contact



Double contact



Light block



Possible location



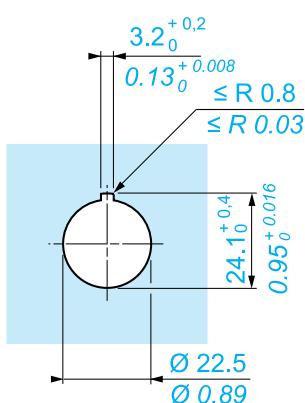
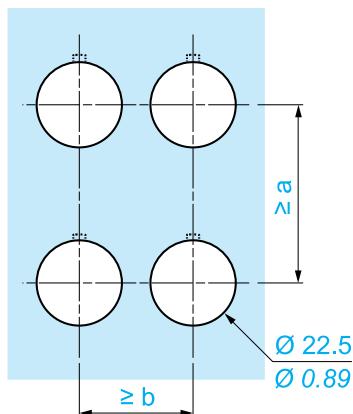
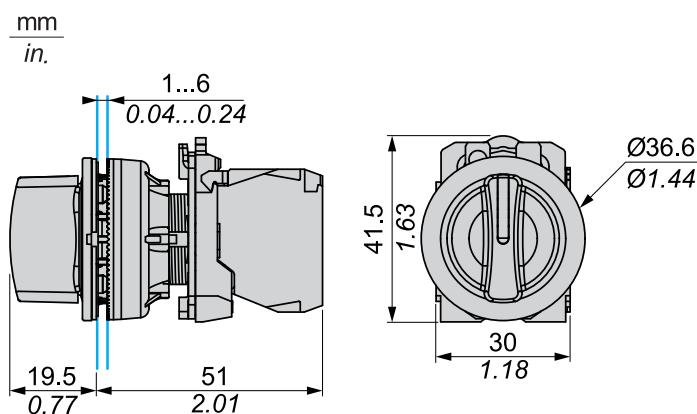
**Sequence of Contacts Fitted to 2-position Selector Switch Body****Position 315°**

<b>Push</b>	Position	Top			
		Bottom			
	Location		Left		Right
	State		0		0
<b>Contacts</b>	N/O		open		open
	N/C		closed		closed

**Position 45°**

<b>Push</b>	Position	Top			
		Bottom			
	Location		Left		Right
	State		1		1
<b>Contacts</b>	N/O		closed		closed
	N/C		open		open

## Dimensions



	a (mm)	a (in.)	b (mm)	b (in.)
ZBE●●●●● ZBV●●●●	40	1.57	30	1.18
ZBE●●●●●3 ZBV●●●●3	45	1.77	32	1.26
ZBE●●●●●4 ZBV●●●●4	40	1.57	30	1.18
ZBE●●●●●5 ZBV●●●●5	50	1.97	30	1.18
ZBE●●●●●9 ZBV●●●●9	40	1.57	30	1.18
ZBRT● ZBRV1	40	1.57	30	1.18

## Recommended replacement(s)