# Product data sheet Characteristics

# XD5PA24

# joystick controller Ø22 4-direction spring return 1NO per direction



IVIAIII	
Range of product	Harmony XB5
Product or component type	Complete joystick controller
Device short name	XD5
Bezel material	Plastic
Fixing collar material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Spring return to 0 position
Operator profile	54 mm long operating shaft
Operator position information	5 positions
Operator direction information	4 directions
Connections - terminals	Screw clamp terminals : <= 2 x 1.5 mm² with cable end conforming to EN 60947-1 Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1

#### Complementary

Range of product	Harmony XB5	
Product or component type	Complete joystick controller	
Device short name	XD5	
Bezel material	Plastic	
Fixing collar material	Plastic	
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Connections - terminals  Screw clamp terminals: <= 2 x 1.5 mm² with cable end conforming to EN 60947-1  Screw clamp terminals: >= 1 x 0.22 mm² without cable end conforming to EN 60947		
Complementary	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1	
Complementary		
	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm	
Complementary Height	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm	
Complementary Height Width	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm	
Complementary Height Width Depth	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm	
Complementary Height Width Depth Product weight Resistance to high pressure washer	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg	
Complementary Height Width Depth Product weight Resistance to high pressure washer Notch per direction	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C, distance: 0.1 m	
Complementary Height Width Depth Product weight Resistance to high pressure washer Notch per direction Contacts type and composition	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C,distance: 0.1 m  1	
Complementary Height Width Depth Product weight	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C,distance: 0.1 m  1 NO	
Complementary  Height  Width  Depth  Product weight  Resistance to high pressure washer  Notch per direction  Contacts type and composition  Contact operation	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C,distance: 0.1 m  1 1 NO Slow-break	
Complementary Height Width Depth Product weight Resistance to high pressure washer Notch per direction Contacts type and composition Contact operation Contacts usage	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C, distance: 0.1 m  1 1 NO Slow-break Standard	
Complementary Height Width Depth Product weight Resistance to high pressure washer Notch per direction Contacts type and composition Contact operation Contacts usage Positive opening	Screw clamp terminals : >= 1 x 0.22 mm² without cable end conforming to EN 60947-1  47 mm  30 mm  132 mm  0.077 kg  7000000 Pa at 55 °C,distance: 0.1 m  1 NO  Slow-break  Standard  Without positive opening	

Contacts material	Silver alloy (Ag/Ni)
Short-circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
[Ith] 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	0.1 A at 250 V, DC-13, R300 conforming to EN/IEC 60947-5-1 0.22 A at 125 V, DC-13, R300 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	$\Lambda$ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda$ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4
Compatibility code	XD5

# Environment

Protective treatment	TH
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2570 °C
Electrical shock protection class	Class II conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK03 conforming to IEC 50102
Standards	JIS C 4520 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-1 CSA C22.2 No 14
Product certifications	LROS (Lloyds register of shipping) RINA DNV UL listed GL BV CSA
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

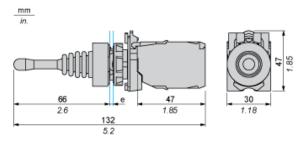
# Contractual warranty

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Warranty period	18 months	
Waltality period	10 1110111115	

# Product data sheet Dimensions Drawings

# XD5PA24

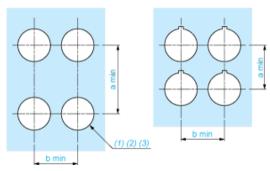
### **Dimensions**



e: panel 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)

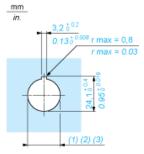
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 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
- 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.  $_0$   $^{+0.016}$ )
- (1) (2) (3)