



Main

Range of product	Harmony XB4
Operator position information	5 positions
Operator direction information	4 directions
Contacts type and composition	1 NO
Contacts operation	Slow-break
Connections - terminals	Screw clamp terminals $\leq 2 \times 1.5 \text{ mm}^2$ with cable end EN 60947-1 Screw clamp terminals $\geq 1 \times 0.22 \text{ mm}^2$ without cable end EN 60947-1
Product or component type	Complete joystick controller
Device short name	XD4
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	22 mm
Sale per indivisible quantity	1
Type of operator	Stay put
Operator profile	54 mm long operating shaft

Complementary

Product weight	0,133 kg
Shape of screw head	Cross pozidriv No 1 Cross Philips no 1 Slotted flat Ø 4 mm Slotted flat Ø 5.5 mm
Contacts material	Silver alloy (Ag/Ni)
Short circuit protection	10 A cartridge fuse gG EN/IEC 60947-5-1
[I _{th}] conventional free air thermal current	10 A EN/IEC 60947-5-1
[U _i] rated insulation voltage	600 V 3 EN 60947-1
[U _{imp}] rated impulse withstand voltage	6 kV EN 60947-1
[I _e] rated operational current	0,1 A 250 V DC-13 R300 EN/IEC 60947-5-1 0,22 A 125 V DC-13 R300 EN/IEC 60947-5-1
Electrical durability	1000000 cycles AC-15 4 A 24 V 3600 cyc/h 0,5 EN/IEC 60947-5-1 appendix C 1000000 cycles AC-15 3 A 120 V 3600 cyc/h 0,5 EN/IEC 60947-5-1 appendix C 1000000 cycles AC-15 2 A 230 V 3600 cyc/h 0,5 EN/IEC 60947-5-1 appendix C 1000000 cycles DC-13 0,5 A 24 V 3600 cyc/h 0,5 EN/IEC 60947-5-1 appendix C 1000000 cycles DC-13 0,2 A 110 V 3600 cyc/h 0,5 EN/IEC 60947-5-1 appendix C
Electrical reliability IEC 60947-5-4	$\Lambda < 10\text{exp}(-6)$ 5 V 1 mA in clean environment EN/IEC 60947-5-4 $\Lambda < 10\text{exp}(-8)$ 17 V 5 mA in clean environment EN/IEC 60947-5-4
Resistance to high pressure washer	7000000 Pa 55 °C 0.1 m
Shape of signaling unit head	Round
Notch per direction	1
Contacts usage	Standard
Positive opening	Without
Mechanical durability	1000000 cycles
Tightening torque	0,8...1,2 N.m EN 60947-1

Environment

Protective treatment	TH
Vibration resistance	5 gn 2...500 Hz IEC 60068-2-6
Shock resistance	30 gn 18 ms half sine wave acceleration IEC 60068-2-27 50 gn 11 ms half sine wave acceleration IEC 60068-2-27
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Class of protection against electric shock	Class I IEC 60536
IP degree of protection	IP66 IEC 60529
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK03 IEC 50102
Standards	CSA C22-2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508
Product certifications	BV CSA DNV (Det Norske Veritas) GL LROS (Lloyds register of shipping) RINA UL listed
RoHS EUR conformity date	0727
RoHS EUR status	Compliant