



## Main

Range of product	Harmony XK
Product or component type	Complete joystick controller
Product specific application	Medium hoisting applications
Device short name	XKDF
Sale per indivisible quantity	1

## Complementary

Bezel material	Metal
Fixing collar material	Metal
Terminals description ISO n°1	(11-12)NC
Protective treatment	TC
Operator position information	All positions
Operator profile	Standard handle Handle in the center Handle in the center, 1 C/O, snap action Dead man's handle, 1 NC + 1 NO, slow-break Dead man's handle, 1 NO + 1 NO, slow-break Handle, 1 NC + 1 NO Handle, 1 NO + 1 NO
Control station composition	1 flush push-button 1 projecting push-button
Notch per direction	1...3 notches at 12°-24°-36° for each direction 1...5 notches at 12°-18°-24°-30°-36° for each direction
Adaptation for potentiometer	Without adaptation nor potentiometer With adaptation, without potentiometer With adaptation and potentiometer
Operator direction information	2 to 6 directions
Positive opening	Slow break, double-break contactswith positive opening operation
Connections - terminals	Captive screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end Captive screw clamp terminals, $\leq 1 \times 2.5 \text{ mm}^2$ without cable end Captive screw clamp terminals, $\geq 1 \times 0.5 \text{ mm}^2$
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
Contacts material	Silver alloy (Ag/Ni)
Short-circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
Contact block name	ZB2BE102
Contacts type and composition	1 NC
[I <sub>th</sub> ] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1 10 A conforming to CSA C22.2 No 14
[U <sub>i</sub> ] rated insulation voltage	500 V (pollution degree 3) conforming to EN 60947-1
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV EN 60947-1
[I <sub>e</sub> ] 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	$\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4

## Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...70 °C
Overvoltage category	Class I conforming to IEC 61140
IP degree of protection	IP54 conforming to IEC 60529
Standards	EN/IEC 60947-5-1 CSA C22.2 No 14
Product certifications	CSA EAC CCC
Mechanical durability	3000000 cycles
Vibration resistance	2 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27

## Packing Units

Package 1 Weight	2.100 kg
Package 1 Height	33.800 cm
Package 1 width	12.000 cm
Package 1 Length	12.000 cm