



## Main

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

## Complementary

|                                             |                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product weight                              | 0.133 kg                                                                                                                                                                                                  |
| Resistance to high pressure washer          | 7000000 Pa at 55 °C, distance : 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 conforming to EN 60947-1                                                                                                                                                                    |
| Shape of screw head                         | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>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                                                                                                                                                |
| [Ith] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1                                                                                                                                                                       |
| [Ui] rated insulation voltage               | 250 V (pollution degree 3) conforming to EN/IEC 60947-1                                                                                                                                                   |

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| [Uimp] rated impulse withstand voltage | 6 kV EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ie] rated operational current         | 0.1 A at 250 V, DC-13, R300 conforming to EN/IEC 60947-5-1<br>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<br>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<br>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<br>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<br>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<br>$\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Environment

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                                                                             |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                    |
| Ambient air temperature for operation | -25...70 °C                                                                                                                                                                    |
| Electrical shock protection class     | Class I conforming to IEC 60536                                                                                                                                                |
| IP degree of protection               | IP66 conforming to IEC 60529                                                                                                                                                   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                             |
| IK degree of protection               | IK03 conforming to IEC 50102                                                                                                                                                   |
| Standards                             | UL 508<br>EN/IEC 60947-5-5<br>EN/IEC 60947-1<br>CSA C22.2 No 14<br>JIS C 4520<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1                                                          |
| Product certifications                | UL listed<br>LROS (Lloyds register of shipping)<br>DNV<br>BV<br>CSA<br>GL<br>RINA                                                                                              |
| Vibration resistance                  | 5 gn (f= 2...500 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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

## Contractual warranty

|          |           |
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| Warranty | 18 months |
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