

# XD2GA8251

Complete joystick controller, XD2, XD4, 22mm,  
2 directions 2NO per direction, 1st notch stay  
put, 2nd notch with spring return to 1st notch



## Main

|                           |                              |
|---------------------------|------------------------------|
| Range of product          | Harmony XB5                  |
| Product or component type | Complete joystick controller |
| Device short name         | XD2                          |
| Mounting diameter         | 22 mm                        |
| Bezel material            | Chromium plated metal        |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 500 V (pollution degree 3) conforming to IEC 60947-1<br>600 V (pollution degree 3) conforming to UL 508<br>600 V (pollution degree 3) conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operator position information          | All positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Notch per direction                    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operator direction information         | 2 directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Contacts type and composition          | 2 NO for slow-break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Short-circuit protection               | 10 A gG (gl) Neozed cartridge fuse conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals                | Captive screw clamp terminals, 1 x 0.5 mm <sup>2</sup><br>Captive screw clamp terminals, 2 x 1.5 mm <sup>2</sup> with or without cable end<br>Faston connectors, connection size: 6.3 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Electrical durability                  | 1000000 Cycles, AC-15 at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 at 127 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 at 24...48 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13 at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13 at 48 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13 at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Electrical reliability                 | $\Lambda < 10\exp(-6)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Contact code designation               | A600-Q600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Overvoltage category                   | Class I conforming to IEC 61140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical durability                  | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Fixing center                          | 90 x 90 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Return                                 | Spring return<br>Stay put                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height                                 | 145 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Depth                                  | 60 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net weight                             | 0.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ie] rated operational current         | 0.27 A at 250 V, DC-13, Q300 conforming to IEC 60947-5-1<br>3 A at 240 V, AC-15, A300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Standards                             | IEC 60947-5-1                                     |
| Product certifications                | LROS (Lloyds register of shipping)[RETURN]CSA     |
| Protective treatment                  | TC                                                |
| Ambient air temperature for storage   | -40...70 °C                                       |
| Ambient air temperature for operation | -25...70 °C                                       |
| Vibration resistance                  | 5 gn (f= 40...500 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 20 gn conforming to IEC 60068-2-27                |
| IP degree of protection               | IP66 conforming to IEC 60529                      |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 9.0 cm   |
| Package 1 Width              | 9.5 cm   |
| Package 1 Length             | 15.0 cm  |
| Package 1 Weight             | 453.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 6        |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 3.041 kg |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes                                                                                                                               |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                        |
| Mercury free               | Yes                                                                                                                               |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | No need of specific recycling operations                                                                                          |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |