

# K10A001ACH

Complete cam switch, Harmony K1, K2, 16mm or 22mm, plastic, 1 pole, 60degrees, 10A, 30x30mm, marked 0 1



## Main

|                                                          |                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------|
| Range of product                                         | Harmony K                                                           |
| Product or component type                                | Complete cam switch                                                 |
| Component name                                           | K10                                                                 |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A                                                                |
| Product mounting                                         | Front mounting                                                      |
| Fixing mode                                              | Ø 16 or 22 mm hole                                                  |
| Cam switch head type                                     | With front plate 30 x 30 mm                                         |
| Type of operator                                         | Black handle                                                        |
| Rotary handle padlocking                                 | Without                                                             |
| Presentation of legend                                   | With metallic legend, 0 - 1 black marking                           |
| Cam switch function                                      | Switch                                                              |
| Return                                                   | Without                                                             |
| Off position                                             | With Off position                                                   |
| Poles description                                        | 1P                                                                  |
| Switching positions                                      | Right: 0° - 60°                                                     |
| IP degree of protection                                  | Contact block: IP20<br>Operating head: IP65 conforming to IEC 60529 |

## Complementary

|                                                     |                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Switching angle                                     | 60 °                                                                                          |
| [U <sub>i</sub> ] rated insulation voltage          | 440 V (pollution degree 3) conforming to IEC 60947-1                                          |
| Rated operational power in W                        | 370 W AC-23A, 110/120 V 1 phase<br>750 W AC-23A, 220/240 V 1 phase                            |
| Rated power in hp                                   | 0.33 Hp at 110/120 V AC, 1 phase<br>0.75 hp at 220/240 V AC, 1 phase                          |
| [I <sub>e</sub> ] rated operational current AC      | 10 A at 400 V AC-1<br>10 A at 400 V AC-21A<br>3 A at 240 V AC-15<br>6 A at 120 V AC-15        |
| [I <sub>e</sub> ] rated operational current DC      | 10 A at 24 V resistive load<br>0.3 A at 220 V resistive load<br>0.7 A at 110 V resistive load |
| Electrical durability                               | 100000000 cycles                                                                              |
| Short-circuit protection                            | 10 A cartridge fuse, type gG                                                                  |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 4 kV conforming to IEC 60947-1                                                                |
| Contact operation                                   | Slow-break                                                                                    |
| Electrical connection                               | Captive screw clamp terminals, clamping capacity: 2 x 1.5 mm <sup>2</sup>                     |
| Mechanical durability                               | 1000000 cycles                                                                                |
| CAD overall width                                   | 30 mm                                                                                         |
| CAD overall height                                  | 30 mm                                                                                         |
| CAD overall depth                                   | 76 mm                                                                                         |
| Net weight                                          | 0.03 kg                                                                                       |

## Environment

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Standards                             | CENELEC EN 50013<br>IEC 60947-3<br>IEC 60947-5-1 |
| Product certifications                | CULus                                            |
| Protective treatment                  | TC                                               |
| Ambient air temperature for operation | -20...55 °C                                      |
| Ambient air temperature for storage   | -40...70 °C                                      |
| Electrical shock protection class     | Class II conforming to IEC 60536                 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.1 cm  |
| Package 1 Width              | 4.1 cm  |
| Package 1 Length             | 10.5 cm |
| Package 1 Weight             | 53.0 g  |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 80      |
| Package 2 Height             | 15.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 4.53 kg |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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) <a href="#">EU RoHS Declaration</a>                              |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                      |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

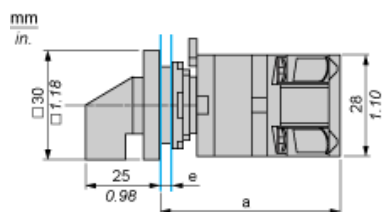
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Cam Switch

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Front Mounting by Ø16 mm/0.63 in. or Ø 22 mm/0.87 in. hole



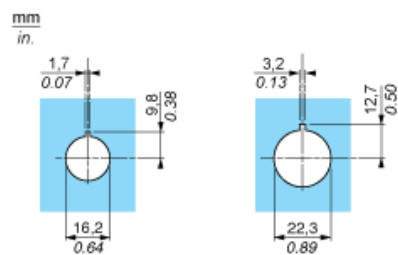
- a 51 mm/2.01 in.
- e support panel thickness: 0.5 mm to 5 mm/0.02 in. to 0.2 in.

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Cam Switch

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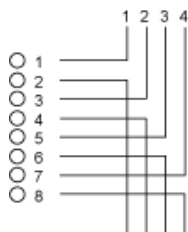
Ø 16 mm/0.63 in. and Ø 22 mm/0.87 in. Panel Cut-outs



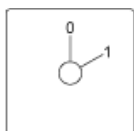
## Link Positions (Factory Mounted)

### Diagram for 1 to 4-pole Switches

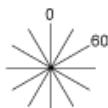
Select the number of poles according to the product characteristics.



## Marking



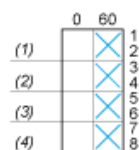
## Angular Position of Switch



## Switching Program

### Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.



- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole

## Convention Used for Switching Program Representation

- Contact closed
- Contact closed in 2 positions and maintained between the 2 positions
- Sealed assembly for auto-maintain control
- Overlapping contacts

 Spring return position: for a switching angle of 90°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

