

# Product data sheet

Specifications



Complete cam switch, Harmony K1, K2, cam changeover switch, 16mm or 22mm, plastic, 2 poles, position 0, 60degrees, 10A, 30x30mm, marked 1 0 2

K10D002UCH

! Discontinued

! Discontinued on: Mar 8, 2023

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

|                                             |                                                                     |
|---------------------------------------------|---------------------------------------------------------------------|
| Range of Product                            | Harmony K                                                           |
| Product or Component Type                   | Complete cam switch                                                 |
| Component name                              | K10                                                                 |
| [Ith] 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, 1 - 0 - 2 black                                      |
| Cam switch function                         | Changeover switch                                                   |
| Return                                      | Without                                                             |
| Off position                                | With Off position                                                   |
| Poles description                           | 2P                                                                  |
| Switching positions                         | Right: 0° - 60°<br>Left: 0° - 300°                                  |
| IP degree of protection                     | Contact block: IP20<br>Operating head: IP65 conforming to IEC 60529 |

## Complementary

|                                   |                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Switching angle                   | 60 °                                                                                                                          |
| [Ui] rated insulation voltage     | 440 V 3)IEC 60947-1                                                                                                           |
| Rated operational power in W      | 1800 W AC-23A, 220/240 V 3 phase<br>370 W AC-23A, 110/120 V 1 phase<br>750 W AC-23A, 220/240 V 1 phase                        |
| Rated power in hp                 | 1 hp 220/240 V AC, 3 phase<br>0.33 hp 110/120 V AC, 1 phase<br>0.75 hp 110/120 V AC, 3 phase<br>0.75 hp 220/240 V AC, 1 phase |
| [Ie] rated operational current AC | 10 A 400 V AC-1<br>10 A 400 V AC-21A<br>3 A 240 V AC-15<br>6 A 120 V AC-15                                                    |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                        |                                                                       |
|----------------------------------------|-----------------------------------------------------------------------|
| [Ie] rated operational current DC      | 10 A 24 V resistive<br>0.3 A 220 V resistive<br>0.7 A 110 V resistive |
| Electrical durability                  | 100000000 cycles                                                      |
| Short-circuit protection               | 10 A cartridge fuse gG                                                |
| [Uimp] rated impulse withstand voltage | 4 kV IEC 60947-1                                                      |
| Contact operation                      | Slow-break                                                            |
| Electrical connection                  | Captive screw clamp terminals 2 x 1.5 mm²                             |
| Mechanical durability                  | 1000000 cycles                                                        |
| CAD overall width                      | 1.2 in (30 mm)                                                        |
| CAD overall height                     | 1.2 in (30 mm)                                                        |
| CAD overall depth                      | 3.5 in (88 mm)                                                        |
| Product Weight                         | 0.099 lb(US) (0.045 kg)                                               |

## Environment

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| Standards                             | CENELEC EN 50013<br>EN/IEC 60947-3<br>EN/IEC 60947-5-1 |
| Product certifications                | CULus                                                  |
| Protective treatment                  | TC                                                     |
| Ambient Air Temperature for Operation | -4...131 °F (-20...55 °C)                              |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                             |
| Electrical shock protection class     | Class II conforming to IEC 60536                       |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10CS121446  |
| Discount Schedule | 0CS1          |
| GTIN              | 3389110076653 |
| Returnability     | No            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Nbr. of units in pkg.        | 1                        |
| Package 1 Height             | 4.2 in (10.6 cm)         |
| Package 1 Width              | 1.6 in (4.0 cm)          |
| Package 1 Length             | 1.6 in (4.1 cm)          |
| Package weight(Lbs)          | 2.3 oz (66.0 g)          |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 65                       |
| Package 2 Height             | 5.9 in (15.0 cm)         |
| Package 2 Width              | 11.8 in (30.0 cm)        |
| Package 2 Length             | 15.7 in (40.0 cm)        |
| Package 2 Weight             | 10.221 lb(US) (4.636 kg) |

# Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 1 kg CO2 eq.                                  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 0 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.1 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                                                                                                           |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                                                                                                           |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                                                                                                                                                                                                                                                                                                                     |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                                                                                                                   |
| California proposition 65              | <b>WARNING:</b> This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



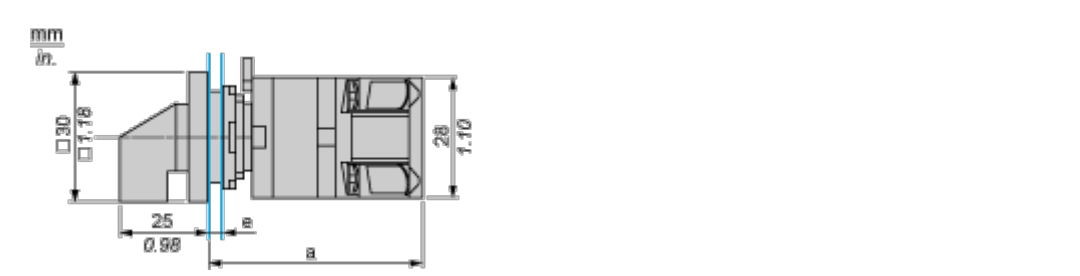
### Repack and remanufacture

|                               |                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in % | 39                                                                                                                                                                                                               |
| Circularity Profile           | No need of specific recycling operations                                                                                                                                                                         |
| Take-back                     | No                                                                                                                                                                                                               |
| WEEE Label                    |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions Drawings

Cam Switch

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

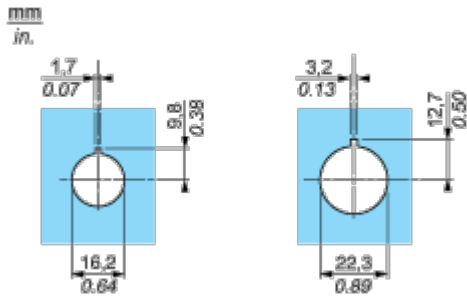


- a 63 mm/2.48 in.
- e support panel thickness: 0.5 mm to 5 mm/0.02 in. to 0.2 in.

Mounting and Clearance

Cam Switch

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

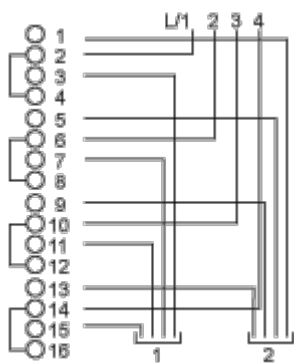


Technical Description

Link Positions (Factory Mounted)

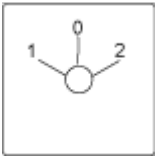
Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.



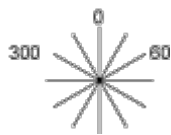
Marking

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Angular Position of Switch

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Switching Program

Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics.

|     | 300 | 0 | 60 |    |
|-----|-----|---|----|----|
|     |     |   | X  | 1  |
| (1) | X   |   |    | 2  |
|     |     |   | X  | 3  |
| (2) | X   |   |    | 4  |
|     |     |   | X  | 5  |
|     |     |   | X  | 6  |
| (3) | X   |   |    | 7  |
|     |     |   | X  | 8  |
|     |     |   | X  | 9  |
| (4) | X   |   |    | 10 |
|     |     |   | X  | 11 |
|     |     |   | X  | 12 |
|     |     |   | X  | 13 |
|     |     |   | X  | 14 |
|     |     |   | X  | 15 |
|     |     |   | X  | 16 |

- (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

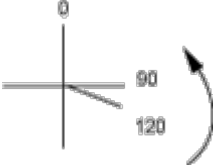


Overlapping contacts



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).

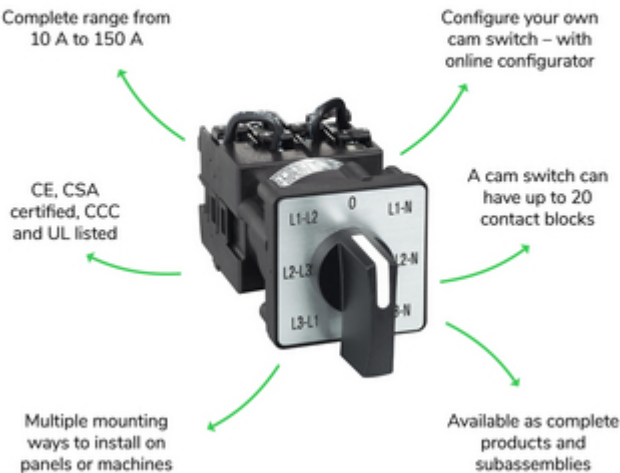
Example:



Offer Marketing Illustration

Product benefits / Features

Technical Benefits  
Harmony K Cam switches



Offer Marketing Illustration

Product benefits / Features

## Features

### Harmony K Cam switches



Modular design combining flexibility and adaptability



Wide range of solutions for a majority of industrial applications



Simple design for easy installation



Wide choice of plastic and metal heads



Compatible with standard 16mm and 22mm diameter cutout



The most complete Cam Switches range available globally



Image of product / Alternate images

Alternative

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