



## MK 441-11Y

- 2 Contacts
- Metal enclosure
- Protection class IP65
- 2 cable entries M 20 x 1.5
- 106 mm x 99 mm x 63 mm (basic component)
- Actuator heads can be repositioned by 4 x 90°

## Data

### Ordering data

|                               |               |
|-------------------------------|---------------|
|                               | MK 441-11Y    |
|                               | 101058945     |
| EAN (European Article Number) | 4030661034287 |
| eCl@ss number, Version 9.0    | 27-27-06-01   |

### Approval - Standards

DNV.GL  
CCC  
EAC

### General data

|                                      |                            |
|--------------------------------------|----------------------------|
| Product name                         | 441 offset roller lever K  |
|                                      | EN 60947-5-1               |
| Active principle                     | mechanical                 |
| Slide form                           | Castor                     |
| Enclosure material                   | Grey cast iron, galvanised |
| Enclosure coating material           | painted                    |
| Material of the contacts, electrical | Silver                     |
| Roller material                      | Plastic                    |
| Gross weight                         | 1,280 g                    |

### General data - Features

|                    |   |
|--------------------|---|
| Number of openers  | 1 |
| Number of shutters | 1 |

## Safety appraisal - Safety outputs

B10d Normally-closed contact (NC) 2,000,000 Operations

### Mechanical data

|                                            |                                                              |
|--------------------------------------------|--------------------------------------------------------------|
| Actuating element                          | Offset roller lever                                          |
| Mechanical life, minimum                   | 5,000,000 Operations                                         |
| Actuating angle, from left of switch axis  | 45 °                                                         |
| Actuating angle, from right of switch axis | 30 °                                                         |
| Contact opening                            | 2 x 2.5 mm                                                   |
| Actuating speed, minimum                   | 1 mm/min                                                     |
| Actuating speed, maximum                   | 0.5 m/s                                                      |
| Note (Actuating speed)                     | Actuating speed with vertical actuating angle to switch axis |

### Mechanical data - Connection technique

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Terminal Connector   | Screw connection                                                              |
|                      | 1.5 mm <sup>2</sup>                                                           |
|                      | 2.5 mm <sup>2</sup>                                                           |
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |
| Wire cross-section   | 13 AWG                                                                        |

### Mechanical data - Dimensions

|                    |        |
|--------------------|--------|
| Height of sensor   | 173 mm |
| Length of sensor   | 63 mm  |
| Width of sensor    | 106 mm |
| Width of Castor    | 6.5 mm |
| Diameter of Castor | 25 mm  |

### Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Protection class             | IP 65 to IEC/EN 60529 |
| Ambient temperature, minimum | -30 °C                |
| Ambient temperature, maximum | +90 °C                |

### Ambient conditions - Insulation value

|                                 |      |
|---------------------------------|------|
| Rated impulse withstand voltage | 4 kV |
|---------------------------------|------|

### Electrical data

|                            |         |
|----------------------------|---------|
| Thermal test current       | 16 A    |
| Utilisation category AC-15 | 250 VAC |

|                            |                                        |
|----------------------------|----------------------------------------|
| Utilisation category AC-15 | 4 A                                    |
| Switching element          | NO contact, NC contact                 |
| Note (Switching element)   | galvanically separated contact bridges |
| Switching principle        | Snap switch element                    |
| Bounce duration, maximum   | 5 ms                                   |
| Switchover time, maximum   | 35 ms                                  |

## Notes

|                |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------|
| Note (General) | Actuation from the right should be avoided, since this reduces the mechanical life of the position switch. |
|----------------|------------------------------------------------------------------------------------------------------------|

## Ordering code

Product type description:

(1)(2) 441-11Y(3)-(4)-(5)

(1)

**T** Slow action (not available for AF/S)

**M** Snap action

(2)

**S** Plunger S

**2S** Telescopic plunger 2S

**R** Roller plunger R

**K** Offset roller lever K

**J** Offset roller lever J

**2C** Fork lever 2C

**L** Roller lever L

**D** Roller lever D

**MAF/S** Level switch AF/S

(3)

**UE** Slow action with overlapping contacts

(4)

**without** Cast iron enclosure

**A** Aluminium enclosure

(5)

**T** temperature-resistant and tropical version with ceramic insulation for -40 °C ... +200 °C

**1276-2** Gold-plated contacts

Pictures

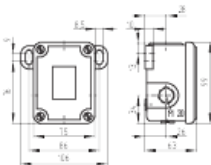
Photo/Product/Catalogue



ID: kt441f05

| 104,1 kB | .png | 74.083 x 129.822 mm - 210 x 368  
Pixel - 72 dpi  
| 782,9 kB | .jpg | 212.725 x 372.886 mm - 603 x 1057  
Pixel - 72 dpi

Dimension/Product/Basic



ID: 1t441g01

| 3,9 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel  
- 72 dpi  
| 29,6 kB | .cdr |  
| 86,4 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701  
Pixel - 72 dpi

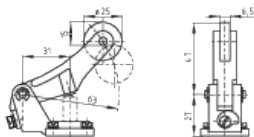
Diagramm/Product/Travel



ID: kt441s10

| 1,1 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel  
- 72 dpi  
| 54,5 kB | .jpg | 352.778 x 262.467 mm - 1000 x 744  
Pixel - 72 dpi

Dimension/Product/Actuator



ID: 1t422b04

| 94,0 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701  
Pixel - 72 dpi  
| 9,6 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel  
- 72 dpi

Illistration/Product/Function



ID: 235rz03



| 131,9 kB | .jpg | 352.778 x 773.642 mm - 1000 x 2193 Pixel - 72 dpi

| 15,5 kB | .cdr |

| 2,7 kB | .png | 74.083 x 162.278 mm - 210 x 460 Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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