

## Datasheet - MK 015-11Y



Position switch / medium heavy Position switch / Product series 015, 016, 017 - Metal enclosure / 015 / 015 Offset roller lever K

Preferred typ



- Metal enclosure
- 2 Contacts
- 67 mm x 75 mm x 43 mm ( basic component)
- Actuator heads can be repositioned by 4 x 90°
- 3 Cable entry M 20 x 1.5

(Minor differences between the printed image and the original product may exist!)

### Ordering details

Product type description	MK 015-11Y
Article number	101160412
EAN Code	4030661189826
eCl@ss	27-27-06-01

### Approval

Approval



### Global Properties

Permanent light	015 Rollenhebel K
Standards	EN 60947-5-1
Compliance with the Directives (Y/N)	Yes
Suitable for safety functions (Y/N)	No
Standard housing (Y/N)	No
Materials	
- Material of the housings	light alloy die-casting, painted
- Roller material	Plastic
- Material of the contacts	Silver

Housing coating	painted
Weight	265
Slide form	Castor

## Mechanical data

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Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	1.5
- Max. Cable section	2.5
AWG-Number	13
Active principle	mechanical
Mechanical life	10.000.000 operations
notice	All indications about the cable section are including the conductor ferrules.
Design of actuating element	Offset roller lever
Actuating force	11 N
Bounce duration	≤ 2.5
Switchover time	≤ 40
Contact opening	2 x 1.2
Actuating speed with vertical actuating angle to switch axis	
- Min. Actuating speed	1
- Max. Actuating speed	0,5
- Actuating angle from left of switch axis	45
- Actuating angle from right of switch axis	30

## Ambient conditions

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Ambient temperature	
- Min. environmental temperature	-30
- Max. environmental temperature	+90
Protection class	IP65 to IEC/EN 60529

## Electrical data

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Design of control element	Normally open contact (NO), Opener (NC)
- Change-over contact with double break	
- galvanically separated contact bridges	
Switching principle	Snap switch element
Number of shutters	1
Number of openers	1
Rated insulation voltage $U_i$	500 V
Thermal test current $I_{the}$	10 A
Utilisation category	AC-15: 400 V / 2,5 A
Max. fuse rating	20 A gG D-fuse

## Dimensions

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Dimensions of the sensor	
- Width of sensor	67
- Height of sensor	113
- Length of sensor	43
Roller wide	8.5
Roller diameter	20

## notice






notice

Actuation from the right should be avoided, since this reduces the mechanical life of the position switch.

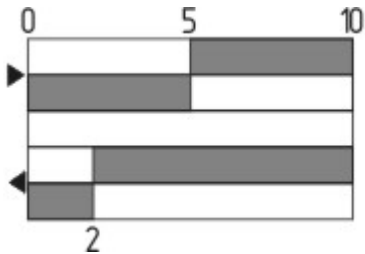
## Diagram








Note Diagram

-  positive break NC contact
-  active
-  no active
-  Normally-open contact
-  Normally-closed contact

## Switch travel diagram



Notes Switch travel diagram

-  Contact closed
-  Contact open
-  Setting range
-  Break point
-  Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

## Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: MK 015-11Y- C

...- C

Magnetic blow-out  
Blow-out magnets available to switch high DC currents  
Rated operating current/voltage  $I_e/U_e$ : 1 A / 220 V; 4 A / 24 V  
Utilisation category: DC-13

...-RMS

Available with metal roller

## Ordering code

(1)(2) 015-(3)Y-(4)

<b>(1)</b>	
<b>T</b>	Slow action
<b>M</b>	Snap action
<b>(2)</b>	
<b>S</b>	Plunger S
<b>2S</b>	Telescopic plunger 2S
<b>K</b>	Offset roller lever K
<b>2K</b>	Rocking offset roller lever 2K
<b>3K</b>	Angle roller lever 3K
<b>8H</b>	Roller lever 8H
<b>7H</b>	Roller lever 7H
<b>10H</b>	Rod lever 10H
<b>H</b>	Roller lever H
<b>4H</b>	Spring rod lever on shaft 4H
<b>2H</b>	Leaf-spring lever 2H
<b>3H</b>	Roller lever 3H
<b>9H</b>	Rod lever 9H
<b>6H</b>	Leaf-spring lever 6H
<b>(3)</b>	
<b>11</b>	1 Normally open contact (NO) / 1 Opener (NC)
<b>02</b>	2 Opener (NC)
<b>20</b>	2 Normally open contact (NO)
<b>(4)</b>	
<b>UE</b>	Slow action with overlapping contacts
<b>H</b>	Slow action with staggered contacts
<b>C</b>	Magnetic blow-out

## Documents

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**Operating instructions and Declaration of conformity (nl)** 95 kB, 20.07.2018

Code: mrlk\_posi-allgemein\_nl

**Operating instructions and Declaration of conformity (ru)** 133 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_ru

**Operating instructions and Declaration of conformity (es)** 88 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_es

**Operating instructions and Declaration of conformity (en)** 86 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_en

**Operating instructions and Declaration of conformity (cn)** 138 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_cn

**Operating instructions and Declaration of conformity (it)** 86 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_it

**Operating instructions and Declaration of conformity (jp)** 285 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_jp

**Operating instructions and Declaration of conformity (pl)** 118 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_pl

**Operating instructions and Declaration of conformity (fr)** 85 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_fr

**Operating instructions and Declaration of conformity (pt)** 86 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_pt

**Operating instructions and Declaration of conformity (de)** 88 kB, 09.07.2018

Code: mrlk\_posi-allgemein\_de

**Declaration of conformity (de)** 93 kB, 27.03.2017

Code: konfi\_mrl\_tm015\_de

**Declaration of conformity (en)** 91 kB, 07.11.2017

Code: konfi\_mrl\_tm015\_en

**CCC certification (en)** 4 MB, 27.10.2017

Code: q\_372p02

**CCC certification (cn)** 4 MB, 27.10.2017

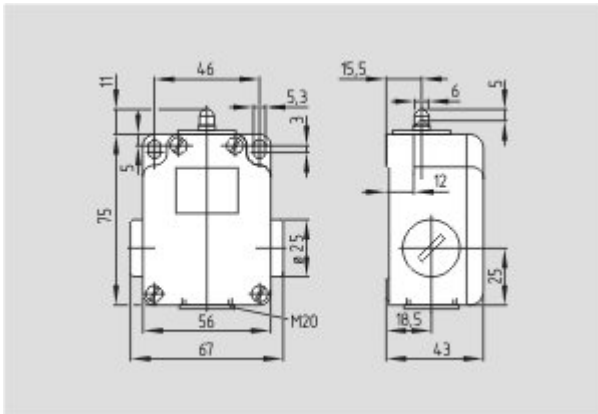
Code: q\_372p03

**EAC certification (ru)** 388 kB, 20.01.2016

Code: q\_1527p17\_ru

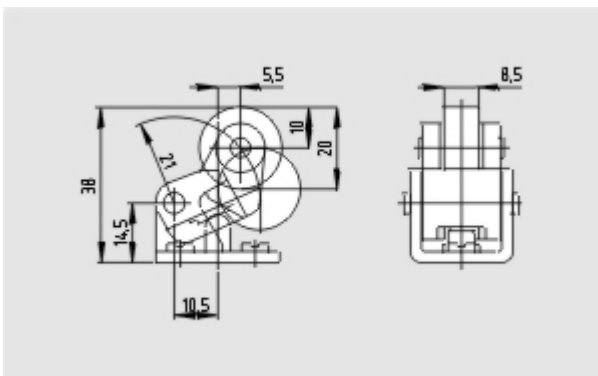
## Images

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Dimensional drawing (basic component)

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Dimensional drawing (miscellaneous)

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Operating principle

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K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal  
The data and values have been checked thoroughly. Technical modifications and errors excepted.  
Generiert am 13.02.2019 - 13:34:10h Kasbase 3.3.0.F.64I