

## Datasheet - MV9H 330-11Y



Position switch / light Position switch / M 330 / M 330 Rod lever 9H




- Metal enclosure
- Long life
- 40 mm x 76 mm x 40 mm ( basic component)
- Suitable for low actuating speeds
- 1 Cable entry M 20 x 1.5
- free of silicon
- proved in power station applications
- Actuator head can be repositioned in steps 4 x 90°
- Continuous adjustment of lever position 360°
- Lever can be transposed by 180°
- Steel rod

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

### Ordering details

Product type description	MV9H 330-11Y
Article number	1168056
EAN code	4030661220352

### Global Properties

Product name	330 Stabschwenkhebel 9H
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	cast iron
- Material of the rod	Steel
- Material of the contacts	Silver
Housing coating	painted
Weight	342 g
Slide form	

### Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	1.5 mm <sup>2</sup>

- Max. Cable section	2.5 mm <sup>2</sup>
AWG-Number	13
Active principle	mechanical
Mechanical life	> 30.000.000 operations
Design of actuating element	Rod lever
actuating torque	50,5 Ncm
restistance to shock	50 g / 6 ms
Bounce duration	≤ 1.5 ms
Switchover time	≤ 10 ms
Contact opening	2 x 0,5 mm
Repeat accuracy of switching points	± 0,02 mm
Actuating speed	
- Min. Actuating speed	1 mm/min
- Max. Actuating speed	
notice	All indications about the cable section are including the conductor ferrules.

### Ambient conditions

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

### Electrical data

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 piece
Number of openers	1 piece
Rated impulse withstand voltage $U_{imp}$	4 kV
Rated insulation voltage $U_i$	250 V
Thermal test current $I_{the}$	6 A
Utilisation category	AC-15: 230 V / 2,5 A
Max. fuse rating	6 A gG D-fuse

### Dimensions

Dimensions of the sensor	
- Width of sensor	40 mm
- Height of sensor	376 mm
- Length of sensor	40 mm
Staff diameter	4 mm




### Diagram



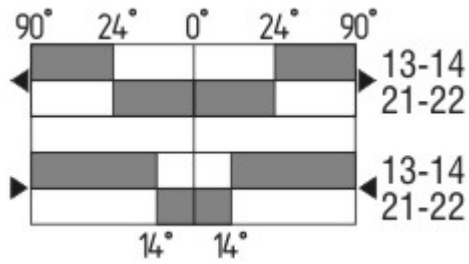
Note Diagram

⊖ 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: MV9H 330-11Y**Au-Ni**

...**Au-Ni**

Gold-nickel contact tips for low DC voltages

## Ordering code

M(1) 330-11Y-(2)-(3)

(1)

- S** Plunger S
- 2S** Telescopic plunger 2S
- R** Roller plunger R
- K** Offset roller lever K
- 3K** Angle roller lever 3K
- 3S** Side plunger 3S
- 3R** Side roller plunger 3R
- AF** Spring rod lever AF
- 4D** Forked roller lever 4D
- 8H** Roller lever 8H
- 7H** Roller lever 7H
- 10H** Rod lever 10H
- H** Roller lever H
- 4H** Spring rod lever on shaft 4H
- 2H** Leaf-spring lever 2H
- 3H** Roller lever 3H
- 9H** Rod lever 9H

**6H** Leaf-spring lever 6H

(2)

*without* without LED switching conditions display

**G24** with LED switching conditions display

(3)

**Ni** Contacts in Gold-nickel alloy

**1164** Splined shaft and lever available with 10° tothing

**1366** For temperatures up to +160°C

## Documents

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**Mounting and wiring instructions** (de, en, fr) 145 kB, 31.03.2008

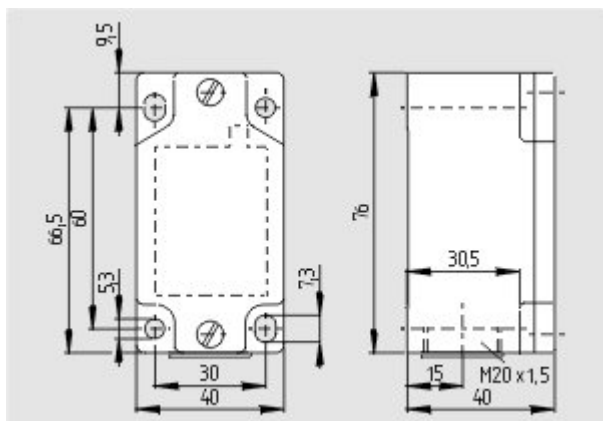
[http://www.schmersal.net/Bilddata/Posi/Pdf/M330/montage/m\\_330p01.pdf](http://www.schmersal.net/Bilddata/Posi/Pdf/M330/montage/m_330p01.pdf)

**Declaration of conformity** (de, en) 76 kB, 03.09.2002

[http://www.schmersal.net/Bilddata/Posi/Pdf/M330/konform/\\_\\_\\_330p01.pdf](http://www.schmersal.net/Bilddata/Posi/Pdf/M330/konform/___330p01.pdf)

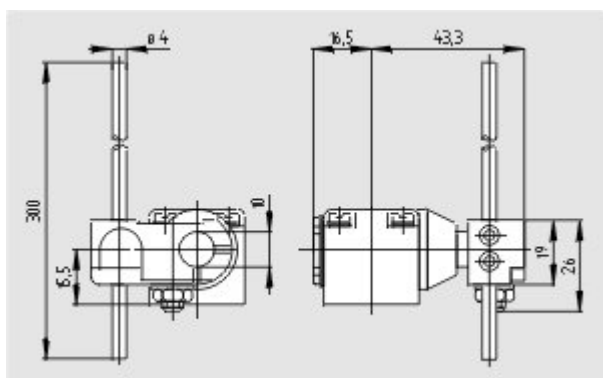
## Images

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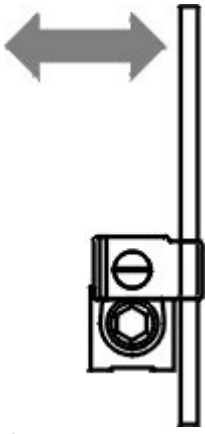
Dimensional drawing (basic component)

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Dimensional drawing (miscellaneous)

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Operating principle

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K.A. Schmersal GmbH, Möddinghofe 30, D-42279 Wuppertal  
The data and values have been checked thoroughly. Technical modifications and errors excepted.  
Generiert am 13.04.2010 - 15:58:54h Kasbase 1.3.5 DBI