

## M3V4D330-11Y-M20



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

### Data

#### Ordering data

Product type description	M3V4D 330-11Y
Article number (order number)	101165920
EAN (European Article Number)	4030661212821
eCI@ss number, Version 9.0	27-27-06-01

#### Certifications

Certificates	cULus
	EAC
	DNV GL

#### General data

Product name	330 fork roller level 4D
Standards	EN 60947-5-1
Active principle	mechanical
Slide form	Castor
Enclosure material	Cast iron
Enclosure coating material	painting
Material of the contacts, electrical	Silver
Roller material	Plastic

Gross weight 305.000 g

### General data - Features

Number of openers 1  
Number of shutters 1

### Mechanical data

Actuating element Forked roller lever  
Mechanical life, minimum 30,000,000 Operations  
Contact opening 2 x 0.5 mm  
Actuating speed, minimum 1 mm/min  
Actuating torque 0.505 Nm  
Repeat accuracy of switching points 0.02

### Mechanical data - Connection technique

Terminal Connector Screw connection  
Cable section, minimum 1.5 mm<sup>2</sup>  
Cable section, maximum 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 120 mm  
Length of sensor 40 mm  
Width of sensor 84 mm  
Width of Castor 8.5 mm  
Diameter of Castor 20 mm

### Ambient conditions

Protection class IP 65 to IEC/EN 60529  
Ambient temperature, minimum -30 °C  
Ambient temperature, maximum +90 °C  
Resistance to shock 50 g / 6 ms

### Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

### Electrical data

Thermal test current 6 A  
Utilisation category AC-15 230 VAC  
Utilisation category AC-15 2.5 A

Switching element	NO contact, NC contact
Note (Switching element)	galvanically separated contact bridges
Switching principle	Snap switch element
Bounce duration, maximum	43,221 ms
Switchover time, maximum	10 ms

## Ordering code

Product type description:

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

(1)

<b>S</b>	Plunger S
<b>2S</b>	Telescopic plunger 2S
<b>R</b>	Roller plunger R
<b>K</b>	Offset roller lever K
<b>3K</b>	Angle roller lever 3K
<b>3S</b>	Side plunger 3S
<b>3R</b>	Side roller plunger 3R
<b>AF</b>	Spring rod lever AF
<b>4D</b>	Fork roller level 4D
<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

(2)

<b>without</b>	without LED switching conditions display
<b>G24</b>	with LED switching conditions display

(3)

<b>AuNi</b>	Gold-nickel alloy contacts
<b>1164</b>	Splined shaft and lever available with 10° tothing
<b>1366</b>	For temperatures up to +160°C

## Pictures

### Product picture (catalogue individual photo)



ID: km330f07

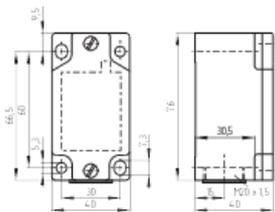
| 58,1 kB | .png | 73.731 x 115.006 mm - 209 x 326

Pixel - 72 dpi

| 368,1 kB | .jpg | 198.967 x 309.739 mm - 564 x 878

Pixel - 72 dpi

### Dimensional drawing basic component



ID: 1m330g01

| 24,6 kB | .cdr |

| 4,0 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel

- 72 dpi

| 107,3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701

Pixel - 72 dpi

### Switch travel diagram



ID: km330s04

| 1,5 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel

- 72 dpi

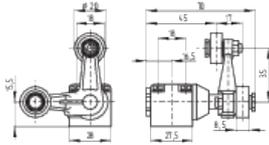
### Diagram



ID: k1o1sk07

| 17,3 kB | .cdr |

## Dimensional drawing actuator



ID: 1m330b07

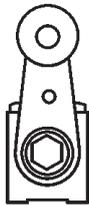
| 119,1 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703

Pixel - 72 dpi

| 10,9 kB | .png | 74.083 x 52.211 mm - 210 x 148

Pixel - 72 dpi

## Operating principle



ID: 235hz05

| 15,2 kB | .cdr |

| 180,5 kB | .jpg | 352.778 x 749.3 mm - 1000 x 2124

Pixel - 72 dpi

| 3,4 kB | .png | 74.083 x 157.339 mm - 210 x 446

Pixel - 72 dpi

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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.

Generated on 11.09.2020 23:02:39