M3K330-11Y-M20

- **Long life**
- **Metal enclosure**
- **free of silicon**
- **1 Cable entry M 20 x 1.5**
- **Suitable for low actuating speeds**
- **proved in power station applications**
- **40 mm x 76 mm x 40 mm (basic component)**
- **Actuator heads can be repositioned by 4 x 90°**
- **Actuation from bottom parallel to the switch,**
  therefore only suitable for small housings.

Data

Ordering data	
Product type description	M3K 330-11Y
Article number (order number)	101168054
EAN (European Article Number)	4030661220338
eCl@ss number, Version 9.0	27-27-06-01
Certifications	
Certificates	cULus EAC DNV GL
General data	
Product name	330 angle roller lever 3K
Standards	EN 60947-5-1
Active principle	mechanical
Slide form	Castor
Enclosure material	Cast iron
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Roller material	Plastic
Gross weight	100.000 g

General data - Features	
Number of openers	1
Number of shutters	1
Mechanical data	
Actuating element	Angle roller lever
Mechanical life, minimum	30,000,000 Operations
Contact opening	2 x 0.5 mm
Actuating speed, minimum	1 mm/min
Repeat accuracy of switching points	0.02
Mechanical data - Connection technique	
Terminal Connector	Screw connection
Cable section, minimum	1.5 mm²
Cable section, maximum	2.5 mm²
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	121.5 mm
Length of sensor	40 mm
Width of sensor	58 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
Restistance 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

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

Ordering code

Product type description:

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	Fork roller level 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)

AuNi	Gold-nickel alloy contacts
1164	Splined shaft and lever available with 10° toothing

1366 For temperatures up to +160°C

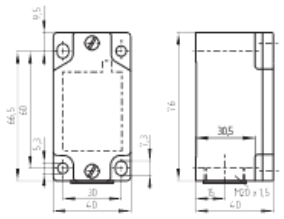
Pictures

Product picture (catalogue individual photo)

ID: km330f12

| 663,3 kB | .jpg | 193.322 x 381 mm - 548 x 1080 Pixel - 72 dpi
| 105,1 kB | .png | 74.083 x 145.697 mm - 210 x 413 Pixel - 72 dpi

Dimensional drawing basic component



ID: 1m330g01

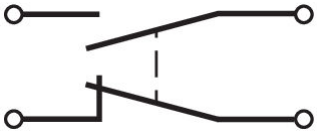
| 24,6 kB | .cdr |
| 4,0 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
| 107,3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi

Switch travel diagram

ID: km330s08

| 1,2 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel - 72 dpi

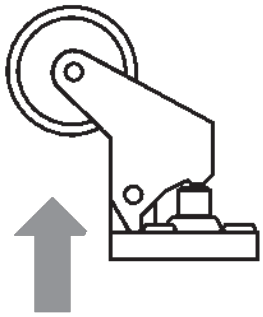
Diagram



ID: k1o1sk07

| 17,3 kB | .cdr |

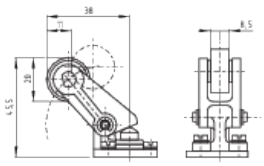
Operating principle



ID: 235kz03

| 2,5 kB | .png | 73.731 x 88.9 mm - 209 x 252 Pixel - 72 dpi
| 125,4 kB | .jpg | 352.778 x 424.744 mm - 1000 x 1204 Pixel - 72 dpi
| 15,5 kB | .cdr |

Dimensional drawing actuator



ID: 1m330b12

| 98,1 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi
| 9,5 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi