



M3K 330-11Y-M20

- Actuator heads can be repositioned by 4 x 90°
- Metal enclosure
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.
- 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

Data

Ordering data

Product type description	M3K 330-11Y-M20
Article number (order number)	131168054
EAN (European Article Number)	8905236107184
eCl@ss number, version 12.0	27-27-06-01
eCl@ss number, version 11.0	27-27-06-01
eCl@ss number, version 9.0	27-27-06-01
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

Approvals - Standards

Certificates	cULus CCC
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General data

Standards	EN IEC 60947-5-1
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Working principle	mechanical
Slide form	Castor
Housing material	Light-alloy diecast, paint finish
Housing coating material	painted
Gross weight	232 g

General data - Features

Number of normally closed (NC)	1
Number of normally open (NO)	1

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Angle roller lever
Roller material	Plastic
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 mm

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	1.5 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.
Wire cross-section	13 AWG

Mechanical data - Dimensions

Length of sensor	40 mm
Width of sensor	58 mm
Height of sensor	121.5 mm
Width of Castor	8.5 mm
Diameter of Castor	20 mm

Ambient conditions

Degree of protection	IP65
Ambient temperature	-30 ... +90 °C
Resistance to shock	50 g / 6 ms

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	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 action
Bounce duration, maximum	1.5 ms
Switchover time, maximum	10 ms
Material of the contacts, electrical	Silver

Note

Note (General)

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

Pictures

Product picture (catalogue individual photo)



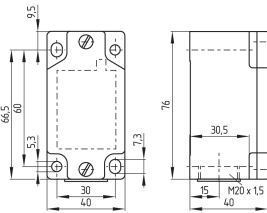
ID: km330f12

| 663.3 kB | .jpg | 193.322 x 381 mm - 548 x 1080 px - 72 dpi

| 105.1 kB | .png | 74.083 x 145.697 mm - 210 x 413 px - 72 dpi

| 54.4 kB | .jpg | 62.794 x 123.472 mm - 178 x 350 px - 72 dpi

Dimensional drawing basic component



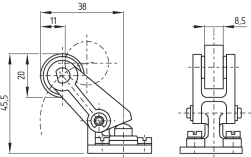
ID: 1m330g01

| 24.6 kB | .cdr |

| 4.0 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi

| 107.3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

Dimensional drawing actuator

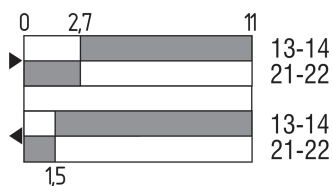


ID: 1m330b12

| 9.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 98.1 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Switch travel diagram



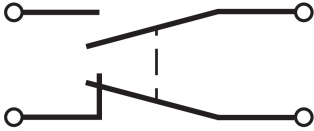
ID: km330s08

| 63.3 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 1.2 kB | .png | 74.083 x 52.564 mm - 210 x 149 px - 72 dpi

| 67.3 kB | .jpg | 352.778 x 206.375 mm - 1000 x 585 px - 72 dpi

Diagram



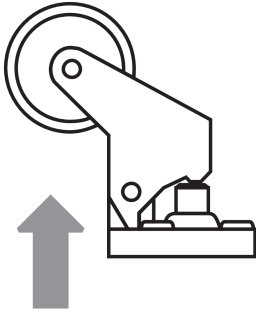
ID: k1o1sk07

| 17.3 kB | .cdr |

| 37.9 kB | .jpg | 352.778 x 146.403 mm - 1000 x 415 px - 72 dpi

| 1.9 kB | .png | 74.083 x 30.692 mm - 210 x 87 px - 72 dpi

Operating principle



ID: 235kz03

| 15.5 kB | .cdr |

| 125.4 kB | .jpg | 352.778 x 424.744 mm - 1000 x 1204 px - 72 dpi

| 2.5 kB | .png | 73.731 x 88.9 mm - 209 x 252 px - 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.

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