

UK 431Y

- 1 Contact
- Metal enclosure
- 1 Cable entry M 20 x 1.5
- 62 mm x 58 mm x 50 mm (basic component)
- Actuator heads can be repositioned by 4 x 90°
- Switching points and contact function adjustable

Data

Ordering data	
	UK 431Y
	101055015
EAN (European Article Number)	4030661002989
eCl@ss number, Version 9.0	27-27-06-01
Approval - Standards	
	EAC
General data	
Product name	U 431 offset roller lever K
	EN 60947-5-1
Active principle	mechanical
Slide form	Castor
Enclosure material	Light alloy die-casting
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Roller material	Plastic
Gross weight	260 g
General data - Features	
Number of openers	1

Mechanical data	
Actuating element	Offset roller lever
Mechanical life, minimum	10,000,000 Operations
Actuating angle, from left of switch axis	45 °
Actuating angle, from right of switch axis	30 °
Contact opening	2 x 1.5 mm
Actuating speed, minimum	1 mm/min
Actuating speed, maximum	0.5 m/s
Note (Actuating speed)	Actuating speed with vertical actuating angle to switch axis
Mechanical data - Connection technique	
Terminal Connector	Screw connection
	1.5 mm²
	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	96 mm
Length of sensor	50 mm
Width of sensor	62 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	-20 °C
Ambient temperature, maximum	+60 °C
Electrical data	
Thermal test current	16 A
Switching element	Opener (NC)
Switching principle	Creep circuit element
Notes	
Note (General)	Type of contact and switching points can be factory set to order. Actuation from the right should be avoided, since this reduces the mechanical life of the position switch.

Ordering code

Product type description:

U(1) 431Y-(2)-(3)

(1)

S Plunger S
K Offset roller lever K
8H Roller lever 8H
H Roller lever H
3H Roller lever 3H
7H Roller lever 7H
4H Spring rod lever on shaft 4H
9H Rod lever 9H
10H Rod lever 10H
2H Leaf spring lever 2H
6H Leaf spring lever 6H

(2)

without 1 NC contact
1S 1 NO contact

(3)

1272 Version for low temperatures to -30 °C

Pictures

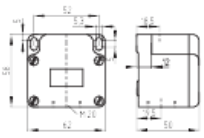
Photo/Product/Catalogue



ID: ku43kf02

| 63,7 kB | .png | 73.731 x 91.369 mm - 209 x 259 Pixel - 72 dpi
| 313,2 kB | .jpg | 178.858 x 221.192 mm - 507 x 627 Pixel - 72 dpi

Dimension/Product/Basic



ID: 1u43-g01

| 3,3 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
| 26,1 kB | .cdr |
| 64,7 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi

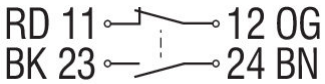
Diagramm/Product/Travel



ID: ku43-s02

| 53,5 kB | .jpg | 352.778 x 182.739 mm - 1000 x 518 Pixel - 72 dpi
| 1,1 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel - 72 dpi

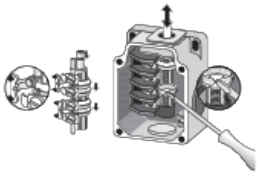
Graphic/Product/Contact



ID: k1o1sk03

| 58,0 kB | .jpg | 352.778 x 84.314 mm - 1000 x 239 Pixel - 72 dpi
| 27,2 kB | .cdr |

Illistration/Product/Function



ID: ku432a01

| 19,8 kB | .png | 74.083 x 49.742 mm - 210 x 141 Pixel - 72 dpi
| 203,1 kB | .cdr |
| 157,4 kB | .jpg | 352.778 x 236.361 mm - 1000 x 670 Pixel - 72 dpi

Illistration/Product/Function

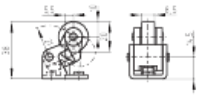


ID: 235rz03

| 131,9 kB | .jpg | 352.778 x 773.642 mm - 1000 x 2193 Pixel - 72 dpi
| 15,5 kB | .cdr |
| 2,7 kB | .png | 74.083 x 162.278 mm - 210 x 460 Pixel - 72 dpi



Dimension/Product/Actuator



ID: 1u43kb01

| 3,5 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
| 64,7 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal
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 562021-01-31T15:28:56+01:000301Europe/BerlinSun, 31 Jan 2021 15:28:56 +010056pmSunday.31pm31Europe/BerlinCET2801Europe/BerlinJanuary2021Sun, 31 Jan 2021 15:28:56 +010001pm31