



US431Y

- 1 Contact
- Metal enclosure
- 1 Cable entry M 20 x 1.5
- 62 mm x 58 mm x 50 mm (basic component)
- Switching points and contact function adjustable

Data

Ordering data

Product type description	US 431Y
Article number (order number)	101175221
EAN (European Article Number)	4030661304519
eCl@ss number, Version 9.0	27-27-06-01

Certifications

Certificates	EAC
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General data

Product name	U 431 plunger S
Standards	EN 60947-5-1
Active principle	mechanical
Slide form	Sphere
Enclosure material	Light alloy die-casting
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	245.000 g

General data - Features

Number of openers	1
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Mechanical data

Actuating element	Plunger
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Mechanical life, minimum	10,000,000 Operations
Actuating angle	20 °
Contact opening	2 x 1.5 mm
Actuating speed, minimum	1 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with vertical actuating angle to switch axis

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable section, minimum	1.5 mm ²
Cable section, maximum	2.5 mm ²
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	69 mm
Length of sensor	50 mm
Width of sensor	62 mm
Diameter of the Plunger	6 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 side of the plunger should be avoided, since this reduces the mechanical life of the position switch.
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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

Product picture (catalogue individual photo)

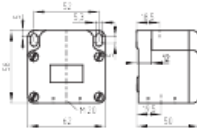


ID: ku43sf02

| 60,2 kB | .png | 74.083 x 75.494 mm - 210 x 214
Pixel - 72 dpi

| 663,8 kB | .jpg | 253.647 x 258.586 mm - 719 x 733
Pixel - 72 dpi

Dimensional drawing basic component



ID: 1u43-g01

| 26,1 kB | .cdr |

| 64,7 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701
Pixel - 72 dpi

| 3,3 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel
- 72 dpi

Switch travel diagram

ID: ku43-s01



| 1,3 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel
- 72 dpi

| 70,3 kB | .jpg | 352.778 x 224.014 mm - 1000 x 635
Pixel - 72 dpi

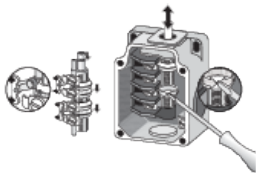
Diagram



ID: k1o1sk03

| 27,2 kB | .cdr |

Operating principle



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

Operating principle



ID: 235sz01

| 1,8 kB | .png | 74.083 x 251.883 mm - 210 x 714
Pixel - 72 dpi

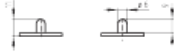
| 95,3 kB | .jpg | 352.778 x 1199.444 mm - 1000 x
3400 Pixel - 72 dpi

| 14,1 kB | .cdr |



Dimensional drawing actuator

ID: 1u43sb01



| 22,5 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701
Pixel - 72 dpi

| 1,4 kB | .png | 74.083 x 51.858 mm - 210 x 147 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.

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