

MD441-11Y-M20



- 2 Contacts
- Metal enclosure
- Protection class IP65
- 2 cable entries M 20 x 1.5
- Lever can be transposed by 180°
- 106 mm x 99 mm x 63 mm (basic component)
- Continuous adjustment of lever position 360°
- Actuator head can be repositioned in steps 4 x 90°
- In temperature-resistant version, the roller can be mounted in two different positions on the shaft

Data

Ordering data

Product type description	MD 441-11Y
Article number (order number)	101160102
EAN (European Article Number)	4030661188850
eCl@ss number, Version 9.0	27-27-06-01

Certifications

Certificates	CCC
	EAC
	DNV GL

General data

Product name	441 roller lever D
Standards	EN 60947-5-1
Active principle	mechanical
Slide form	Castor
Enclosure material	Grey cast iron, galvanised
Enclosure coating material	painted
Material of the contacts, electrical	Silver

Roller material	Plastic
Gross weight	1650.000 g

General data - Features

Number of openers	1
Number of shutters	1

Mechanical data

Actuating element	Roller lever
Mechanical life, minimum	5,000,000 Operations
Actuating angle, from left of switch axis	30 °
Actuating angle, from right of switch axis	30 °
Contact opening	2 x 2.5 mm
Actuating speed, minimum	1 mm/min
Actuating speed, maximum	3 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	237 mm
Length of sensor	63 mm
Width of sensor	106 mm
Width of Castor	9 mm
Diameter of Castor	36 mm

Ambient conditions

Protection class	IP 65 to IEC/EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+90 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	4 kV
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Electrical data

Thermal test current	16 A
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Utilisation category AC-15	250 VAC
Utilisation category AC-15	4 A
Switching element	NO contact, NC contact
Note (Switching element)	galvanically separated contact bridges
Switching principle	Snap switch element
Bounce duration, maximum	5 ms
Switchover time, maximum	35 ms

Ordering code

Product type description:

(1)(2) 441-11Y(3)-(4)-(5)

(1)

T Slow action
M Snap action

(2)

S Plunger S
2S Telescopic plunger 2S
R Roller plunger R
K Offset roller lever K
J Offset roller lever J
2C Fork lever 2C
L Roller lever L
D Roller lever D

(3)

UE Slow action with overlapping contacts

(4)

without Cast iron enclosure
A Aluminium enclosure

(5)

T temperature-resistant and tropical version with ceramic insulation for -40 °C ... +200 °C
1276-2 Gold-plated contacts

Pictures

Product picture (catalogue individual photo)



ID: kt441f09

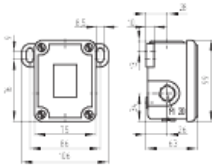
| 577,5 kB | .jpg | 201.083 x 422.628 mm - 570 x 1198

Pixel - 72 dpi

| 96,8 kB | .png | 74.083 x 155.575 mm - 210 x 441

Pixel - 72 dpi

Dimensional drawing basic component



ID: 1t441g01

| 86,4 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701

Pixel - 72 dpi

| 29,6 kB | .cdr |

| 3,9 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel

- 72 dpi

Switch travel diagram



ID: kt441s12

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

- 72 dpi

Operating principle



ID: 235hz05

| 15,2 kB | .cdr |

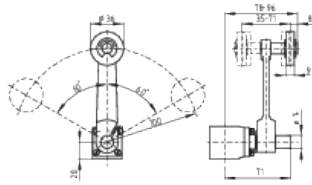
| 180,5 kB | .jpg | 352.778 x 749.3 mm - 1000 x 2124

Pixel - 72 dpi

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

Pixel - 72 dpi

Dimensional drawing actuator



ID: 1t422b08

| 10,2 kB | .png | 74.083 x 51.153 mm - 210 x 145

Pixel - 72 dpi

| 121,4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

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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