

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
---------------------------------	------

Electrical data

Thermal test current	16 A
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

Pictures

Product picture (catalogue individual photo)

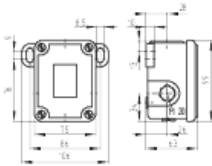


ID: kt441f09

| 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

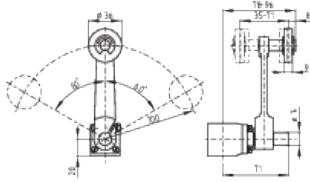
Operating principle



ID: 235hz05

| 15,2 kB | .cdr |

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

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 06.08.2020 16:46:29