MD 441-11Y



- **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	
	MD 441-11Y
	101160102
EAN (European Article Number)	4030661188850
eCl@ss number, Version 9.0	27-27-06-01
Approval - Standards	
	CCC EAC
General data	
Product name	441 roller lever D
	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	1,650 g
General data - Features	
Number of openers	1
Number of shutters	1
Safety appraisal - Safety outputs	
B10d Normally-closed contact (NC)	2,000,000 Operations
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
	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	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

Ordering code

Product type description:

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

(1)

T Slow action (not available for AF/S)

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

MAF/S Level switch AF/S

(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

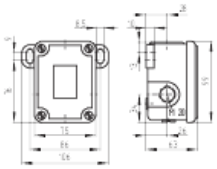
Photo/Product/Catalogue



ID: kt441f09

| 96,8 kB | .png | 74.083 x 155.575 mm - 210 x 441 Pixel - 72 dpi
| 577,5 kB | .jpg | 201.083 x 422.628 mm - 570 x 1198 Pixel - 72 dpi

Dimension/Product/Basic



ID: 1t441g01

| 3,9 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
| 29,6 kB | .cdr |
| 86,4 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi

Diagramm/Product/Travel

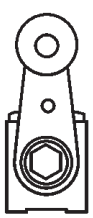


ID: kt441s12

| 1,3 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel - 72 dpi
| 78,0 kB | .jpg | 352.778 x 260.703 mm - 1000 x 739 Pixel - 72 dpi

Illistration/Product/Function

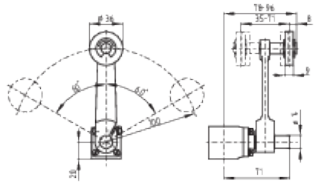




ID: 235hz05

| 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

Dimension/Product/Actuator



ID: 1t422b08

| 121,4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi
| 10,2 kB | .png | 74.083 x 51.153 mm - 210 x 145 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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