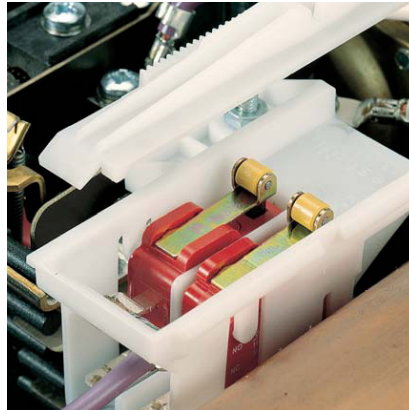
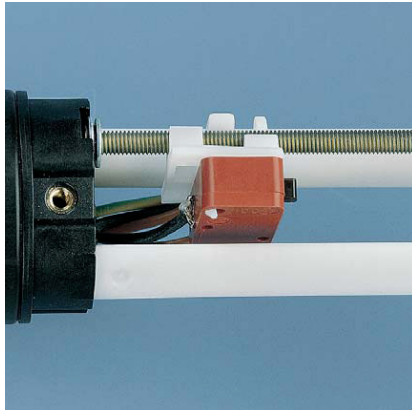
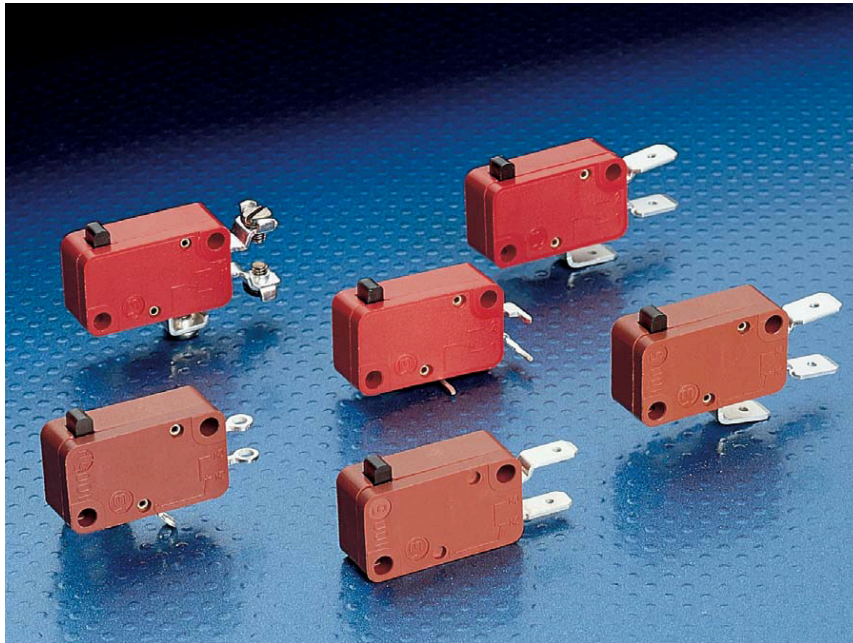


SERIES 1004 / 1005 / 1006 - ENCLOSED SNAP ACTION SWITCHES

UP TO 21 (8) A 250 V~



PRODUCT ADVANTAGES

- ◆ Universally applicable, proven snap action switch series with high functional reliability in size DIN 41635 design A
- ◆ Long mechanical life endurance
- ◆ Very high inrush currents
- ◆ Compulsory friction contact system, its shearing movement can free welded contacts
- ◆ Wide range of ratings from 6 (2,5) A 400 V~ to 21 (8) A 250 V~
- ◆ Contact gaps < 3 mm and ≥ 3 mm
- ◆ Actuating forces of 0,2 N to 4,2 N

SWITCHING FUNCTIONS

- ◆ Change-over
- ◆ Normally open
- ◆ Normally closed

TERMINAL VERSIONS


- ◆ Solder terminal and short solder terminal
- ◆ Quick-connect 6.3 x 0.8 mm
- ◆ Quick-connect 4.8 x 0.8 mm
- ◆ PCB terminal frontal
- ◆ Angled PCB terminal

VERSIONS ON REQUEST

- ◆ Electrical rating change-over 21 (8) A 250 V~ 25E3
- ◆ Electrical rating normally open and normally closed 20 A 250 V~ 50E3
- ◆ Electrical rating normally open > 3 mm 10 (10) A 250 V~ 50E3
- ◆ Electrical rating change-over 8 (8) A 250 V~ 50E3
- ◆ For ambient temperatures T 125
- ◆ Change-over with contact gap ≥ 3 mm (series 1005)
- ◆ Normally open with lateral bearing connection (series 1005)
- ◆ Quick-connect 4.8 x 0.5 mm
- ◆ Quick-connect 2.8 x 0.8 mm
- ◆ UL-electrical rating up to 21 A 125 VAC 1 HP
21 A 250 VAC 2 HP

SERIES 1004 / 1005 / 1006 - ENCLOSED SNAP ACTION SWITCHES

UP TO 21 (8) A 250 V~

Electrical rating (depending on version)		21 (8) A 250 V~ 25E3 16 (4) A 400 V~ 50E3 8 (8) A 250 V~ 50E3 21 A 125 VAC 1 HP 21 A 250 VAC 2 HP
Version		DIN 41635 A
Actuating force	series 1004 series 1005 series 1006	0,2 ... 1,8 N 1,0 ... 4,2 N 0,3 ... 4,2 N
Mechanical life endurance	< 3 mm ≥ 3 mm and lever versions	10E6 5E6
Electrical life endurance		electrical rating-dependent
Contact resistance (new state)		< 100 mΩ
Insulation resistance (new state)		>100 MΩ (500 V DC between the open contacts)
High voltage resistance (new state)	< 3 mm ≥ 3 mm	750 V (between the open contacts) 1250 V (reinforced insulation) 3750 V (reinforced insulation)
Bounce time		< 10 ms
Resistance to tracking		PTI 250
Contact gap		< 3 mm (μ) or ≥ 3 mm
Ambient temperature		-40 °C ... +100 °C no condensation
Storage temperature		-40 °C ... +80 °C
Flammability	housing actuator	UL 94 V-0 UL 94 V-0 / V-2
Heat and fire-resistance		850 °C (category D)
Material	housing / actuator optional actuator optional actuator roller	duroplast or PA chrome-nickel steel PA
Contacts		Ag/Ag resp. gold-plated
Terminals		silver-plated
Solderability of terminals	duroplast-housing thermoplast-housing	max. 350 °C, 5 sec. max. 350 °C, 2-3 sec. (no pressure on the terminals when soldering by hand)
Approval marks		
Suitable for appliances of protection class II. Required air and creepage distances within the appliances have to be observed.		

The test conditions comply with EN 61058-1 resp. UL 1054

SERIES 1005



with contact gap < 3 mm

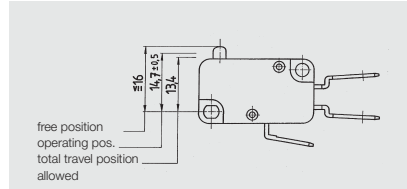
Actuating force 1,5 ... 2,5 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)

Actuating force 2,4 ... 3,8 N
20 (4) A 400 V~ 10E3
16 (4) A 400 V~ 50E3
10 (6) A 250 V~ 50E3
[16 A 125-250 VAC 1/2 HP](#)





change-over


 1005.1001*
 1005.0401*



normally open

 1005.1201*
 1005.4001

normally closed

 1005.1101

mov. differential max. 0.3 mm
pre-travel max. 1.8 mm
over-travel min. 0.8 mm

SERIES 1004

with low actuating forces and contact gap < 3 mm



Actuating force 0,2 ... 0,6 N
6 (2,5) A 250 V~ 50E3
[4 A 125-250 VAC 1/6 HP](#)

Actuating force 0,5 ... 1,1 N
10 (4) A 250 V~ 50E3
[8 A 125-250 VAC 1/3 HP](#)

Actuating force 0,8 ... 1,8 N
16 (4) A 250 V~ 25E3

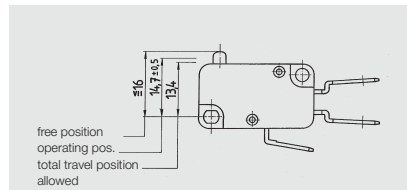


change-over

 1004.1002*
 1004.0402

 1004.1001*

 1004.3503



mov. differential max. 0.3 mm
pre-travel max. 1.8 mm
over-travel min. 0.8 mm



SERIES 1005

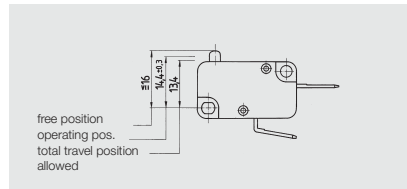
with contact gap \geq 3 mm

Actuating force 2,4 ... 3,8 N
10 (6) A 250 V~ 50E3
[10 A 125-250 VAC 1/2 HP](#)



normally open

 1005.1204*
 1005.0904

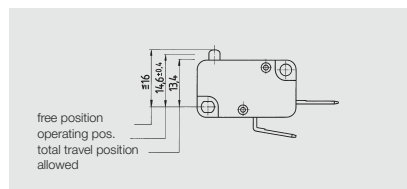


mov. differential max. 1.2 mm
pre-travel max. 1.9 mm
over-travel min. 0.7 mm



normally closed

 1005.1105*



mov. differential max. 1.0 mm
pre-travel max. 1.8 mm
over-travel min. 0.8 mm

* Version on stock

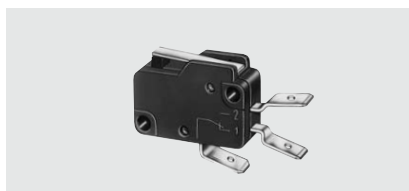
SERIES 1004 / 1005 / 1006 - ENCLOSED SNAP ACTION SWITCHES

UP TO 21 (8) A 250 V~

SERIES 1006

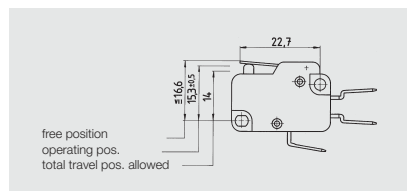
with straight metal lever
contact gap < 3 mm

actuating force 1,5 ... 2,5 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)



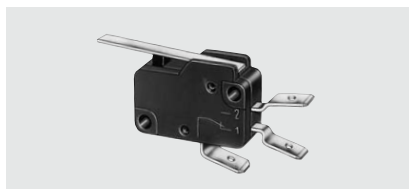
change-over

1006.1101



mov. differential max. 0.3 mm
pre-travel max. 1.8 mm
over-travel min. 0.8 mm

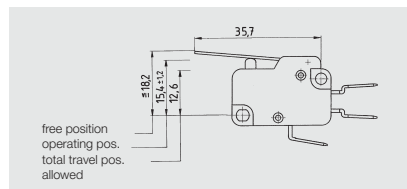
actuating force 0,8 ... 1,4 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)



change-over

1006.1401*

1006.0901



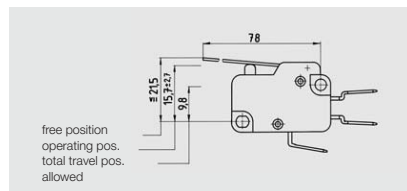
mov. differential max. 0.7 mm
pre-travel max. 4.0 mm
over-travel min. 1.6 mm

actuating force 0,30 ... 0,55 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)



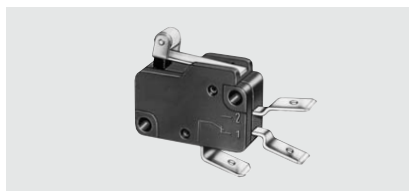
change-over

1006.1301*



mov. differential max. 1.8 mm
pre-travel max. 8.5 mm
over-travel min. 3.2 mm

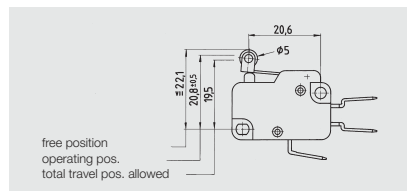
actuating force 1,5 ... 2,5 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)



change-over

1006.1201*

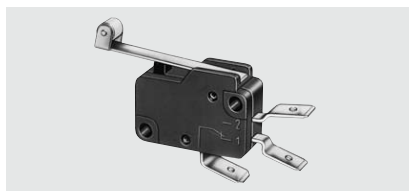
1006.0701*



mov. differential max. 0.3 mm
pre-travel max. 1.8 mm
over-travel min. 0.8 mm

versions with 16A or contact gap \geq 3 mm
on request.

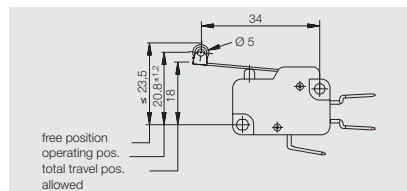
actuating force 0,7 ... 1,25 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
[10 A 125-250 VAC 1/4 HP](#)



change-over

1006.1511*

1006.1011*



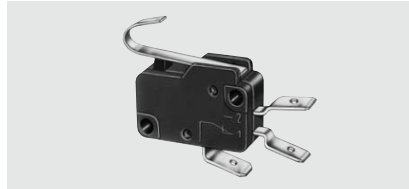
mov. differential max. 0.9 mm
pre-travel max. 3.9 mm
over-travel min. 1.6 mm

SERIES 1006

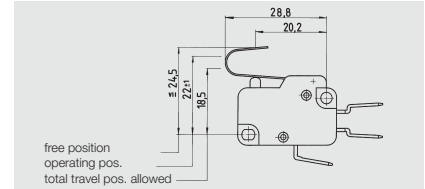
with metal spring actuator
contact gap < 3 mm

The spring actuator allows a recoil of 1.5 mm

actuating force 1,50 ... 2,50 N
6 (2,5) A 400 V~ 50E3
10 (4) A 400 V~ 10E3
10A 125-250 VAC 1/4 HP



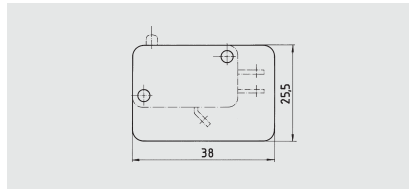
change-over
1006.1801*



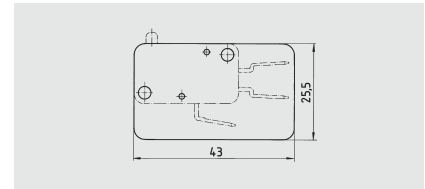
mov. differential max. 0,6 mm
pre-travel max. 3,5 mm
over-travel min. 1,0 mm
+ 1,5 mm with elastic hysteresis

INSULATING PLATES

made of hard paper HP 2061 for
mounting on metal or between
stackable switches

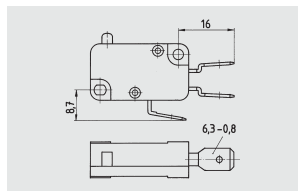
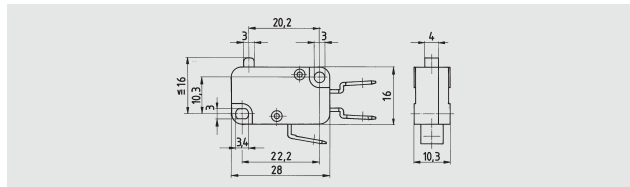


for solder terminal
thickness 0.5 mm 231 009 011*
thickness 0.8 mm 231 009 021*

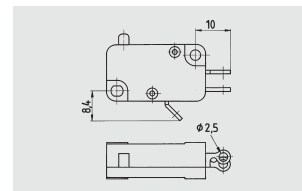


for quick-connect
thickness 0.5 mm 231 010 011*
thickness 0.8 mm 231 010 021*

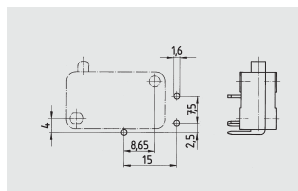
DIMENSIONED DRAWINGS



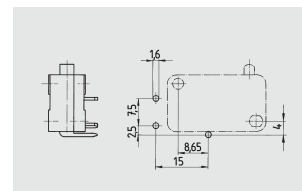
quick-connect



solder terminal



angled PCB-terminal to
socket side (left)



angled PCB-terminal to
cover side (right)

* Version on stock