GIOVENZANA
INTERNATIONAL B.V.

Strawinskylaan 1105
1077 XX Amsterdam, The Netherlands

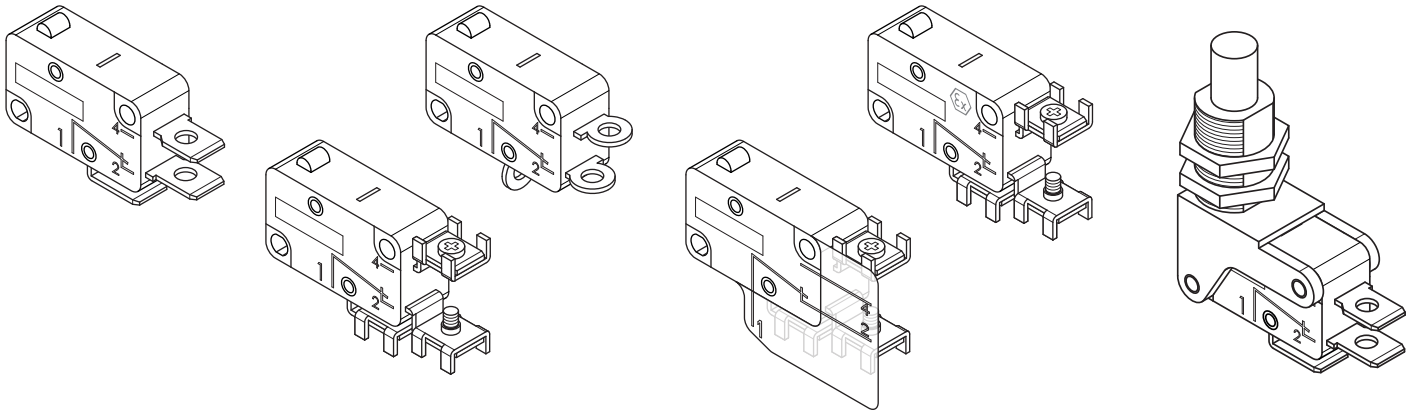
DS-MFI-EN / 17.12.2021
Rev. 3

EN
datasheet

- Fast and reliable switching, independent from actuating speed.
- High electrical ratings with small dimensions.
- High repeat accuracy of switching points and forces.
- Low operating force.
- NC positive opening. ⊖
- Very long service life.
- Equipped with self cleaning switching contacts in silver alloy.
- Contacts: 1 NC + 1 NO (snap action).

MFI...

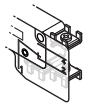
MICROSWITCHES



Operating temperature		-25 ... +85°C -13 ... +185°F
Minimum life expectancy mechanical electrical		 1 × 10⁶ cycles 5 × 10⁵ cycles
Rated thermal current	Ith	8 A
Rated insulation voltage	Ui	250 V
Rated impulse withstand voltage	Uimp	1500 V
Rated operating current resistive load inductive load	ie	 8 A - 250 V 3 A - 250 V
Pollution degree		2
Protection against electric shock		class II

Marking

CE CCC c UL us

	**MFI**	**MFI.1**	**MFI.2**	**MFI.3**	**MFI.4**	**MFI.5**	**MFI.6**	**MFI.7**		p. 3
	**MFI.S**	**MFI.1S**	**MFI.2S**	**MFI.3S**	**MFI.4S**	**MFI.5S**	**MFI.6S**	**MFI.7S**		p. 4
	**MFI.ST**	**MFI.1ST**	**MFI.2ST**	**MFI.3ST**	**MFI.4ST**	**MFI.5ST**	**MFI.6ST**	**MFI.7ST**		p. 5
	**MFI.STP**	**MFI.1STP**	**MFI.2STP**	**MFI.3STP**	**MFI.4STP**	**MFI.5STP**	**MFI.6STP**	**MFI.7STP**		p. 6
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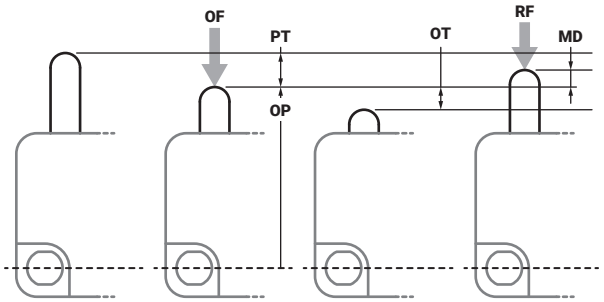
OF	**[N]**	**Operating force** Force, applied to the actuator, required to operate the contacts
RF	**[N]**	**Release force** Value to which the force applied to the actuator must be reduced to allow the contacts to return to the release position and reset
PT	**[mm]**	**Pretravel** The distance or angle that the operator travels from the starting position to the operating position



OP	**[mm]**	**Operating position** Position of the actuator in which the contacts are activated with a snap action, reached when the actuating force is applied
OT	**[mm]**	**Overtravel** The distance or angle that the operator travels from the operating position to the total travel position
MD	**[mm]**	**Differential movement** The distance or angle that the operator travels from the activation position to the release position in which the reset occurs

Microswitches with 6.3 × 0.8 mm faston terminals

M	F	I	.				

Compliance:
IEC/EN61058
UL1054

Series

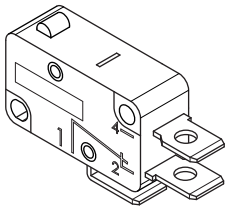
MFI microswitches

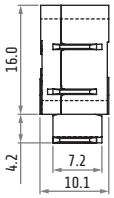
Actuator

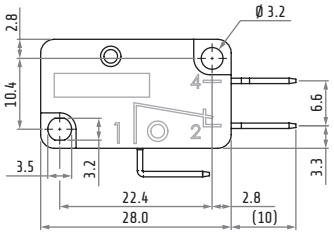
blank	pin plunger
1	long roller lever
2	simulated roller lever
3	roller lever
4	long lever
5	medium lever
6	short lever
7	16 mm roller lever

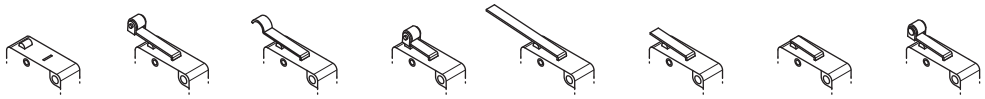
Terminal type and other features

blank	6.3 × 0.8 mm faston



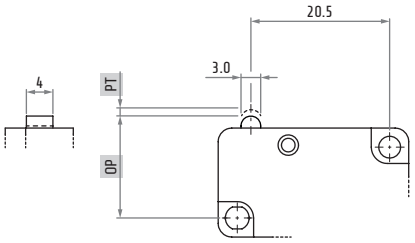




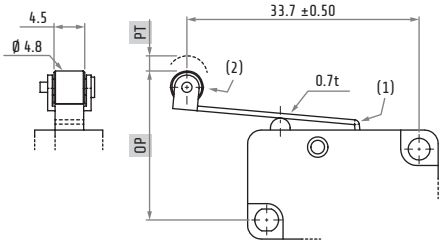


		MFI	MFI.1	MFI.2	MFI.3	MFI.4	MFI.5	MFI.6	MFI.7	
OF	max	5.1	3.2	3.2	5.1	1.3	3.2	5.1	4.5	N
RF	min	1.9	1.0	1.0	1.9	0.15	1.2	1.9	1.9	N
PT	max	1.4	3.3	3.3	1.4	7.6	3.3	1.6	1.8	mm
OT	min	0.8	0.8	0.8	0.6	2.2	0.8	0.6	0.8	mm
MD	max	0.3	0.8	0.8	0.6	2.2	0.8	0.6	0.6	mm
OP		14.4 ±0.5	20.3 ±1.2	18.4 ±1.2	20.3 ±0.8	15.1 ±2.6	15.1 ±1.2	15.1 ±0.6	21.1 ±0.6	mm

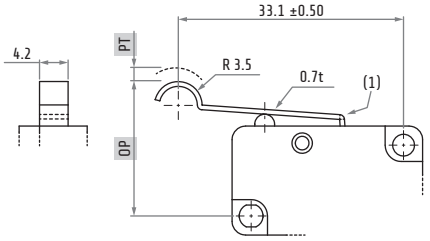
Dimensions in mm / illustrations NOT in scale (1) Stainless steel lever (2) Plastic material roller (3) Stainless steel roller



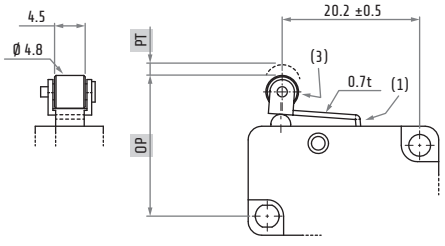
MFI



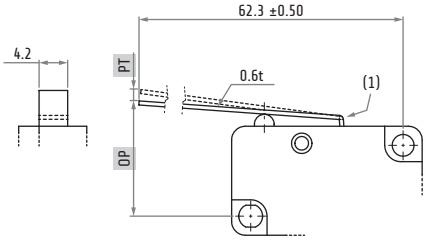
MFI.1



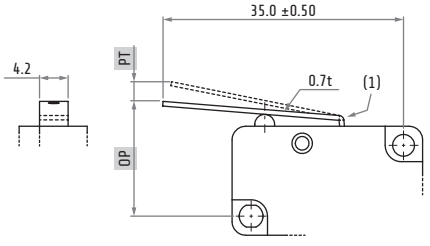
MFI.2



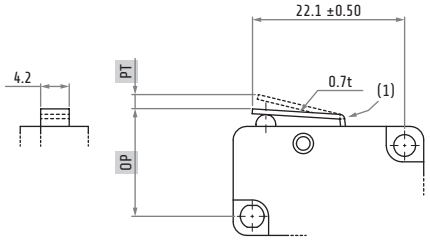
MFI.3



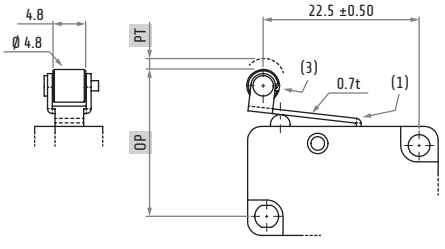
MFI.4



MFI.5



MFI.6



MFI.7

Microswitches with solder contact terminals

M	F	I	.		S		

Compliance:
IEC/EN61058
UL1054

Series

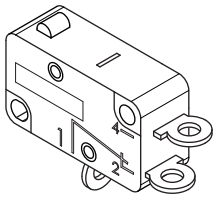
MFI microswitches

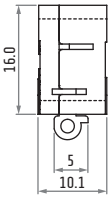
Actuator

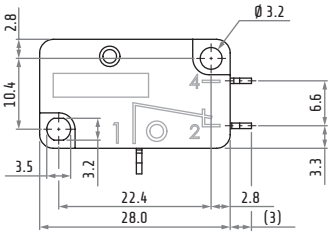
blank pin plunger
1 long roller lever
2 simulated roller lever
3 roller lever
4 long lever
5 medium lever
6 short lever
7 16 mm roller lever

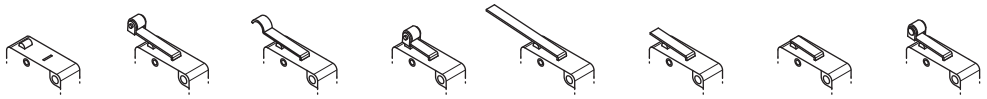
Terminal type and other features

S solder contact



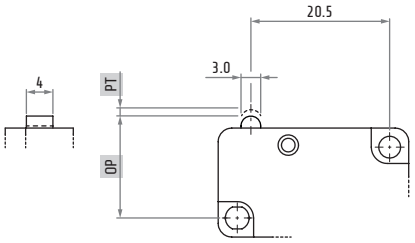




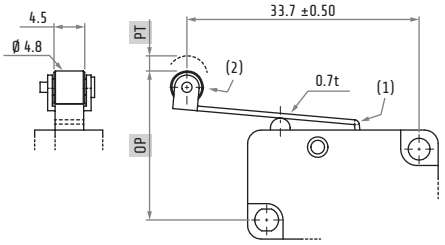


		MFI.S	MFI.1S	MFI.2S	MFI.3S	MFI.4S	MFI.5S	MFI.6S	MFI.7S	
OF	max	5.1	3.2	3.2	5.1	1.3	3.2	5.1	4.5	N
RF	min	1.9	1.0	1.0	1.9	0.15	1.2	1.9	1.9	N
PT	max	1.4	3.3	3.3	1.4	7.6	3.3	1.6	1.8	mm
OT	min	0.8	0.8	0.8	0.6	2.2	0.8	0.6	0.8	mm
MD	max	0.3	0.8	0.8	0.6	2.2	0.8	0.6	0.6	mm
OP		14.4 ±0.5	20.3 ±1.2	18.4 ±1.2	20.3 ±0.8	15.1 ±2.6	15.1 ±1.2	15.1 ±0.6	21.1 ±0.6	mm

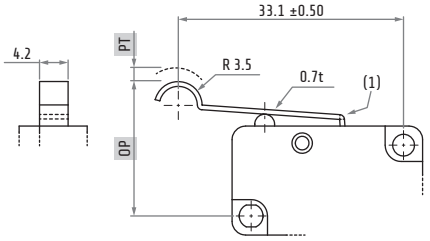
Dimensions in mm / illustrations NOT in scale (1) Stainless steel lever (2) Plastic material roller (3) Stainless steel roller



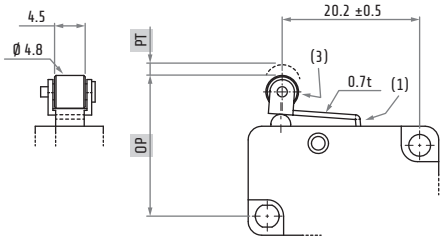
MFI.S



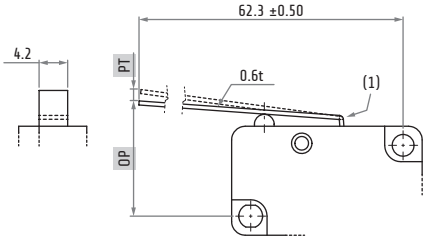
MFI.1S



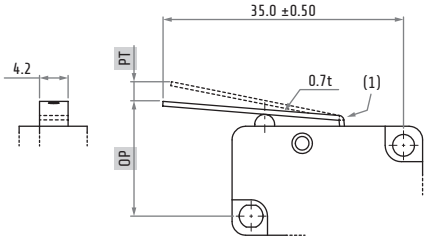
MFI.2S



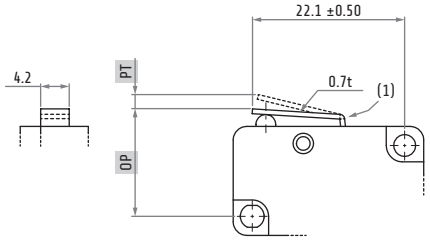
MFI.3S



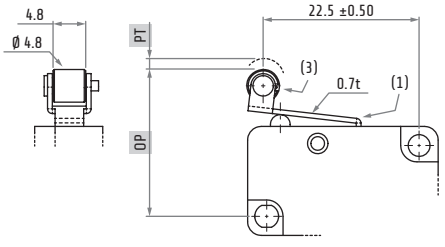
MFI.4S



MFI.5S



MFI.6S



MFI.7S

MFI.ST

Microswitches with terminals with screws M3 for wire 1.5 mm²

M	F	I	.		S	T	

Compliance:
IEC/EN61058
UL1054

Series

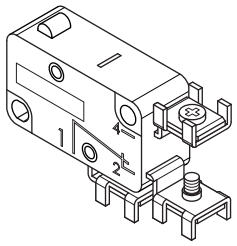
MFI microswitches

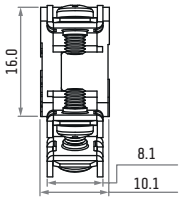
Actuator

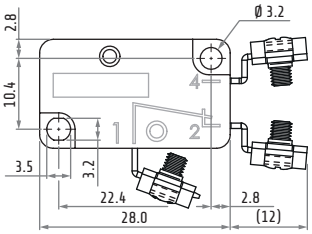
blank	pin plunger
1	long roller lever
2	simulated roller lever
3	roller lever
4	long lever
5	medium lever
6	short lever
7	16 mm roller lever

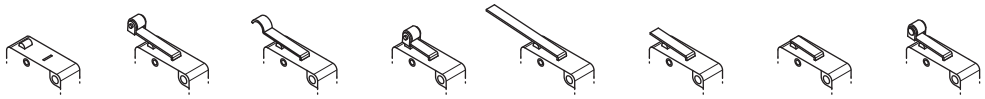
Terminal type and other features

ST	screws M3 for wire 1.5 mm²



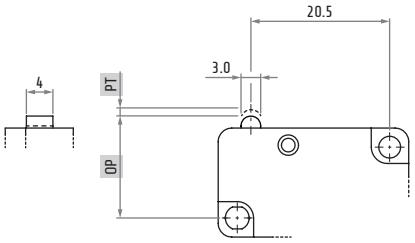




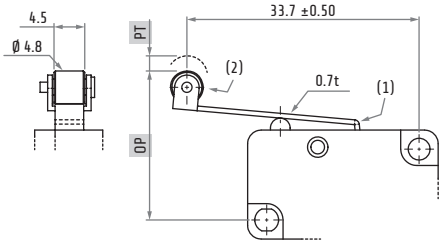


		MFI.ST	MFI.1ST	MFI.2ST	MFI.3ST	MFI.4ST	MFI.5ST	MFI.6ST	MFI.7ST	
OF	max	5.1	3.2	3.2	5.1	1.3	3.2	5.1	4.5	N
RF	min	1.9	1.0	1.0	1.9	0.15	1.2	1.9	1.9	N
PT	max	1.4	3.3	3.3	1.4	7.6	3.3	1.6	1.8	mm
OT	min	0.8	0.8	0.8	0.6	2.2	0.8	0.6	0.8	mm
MD	max	0.3	0.8	0.8	0.6	2.2	0.8	0.6	0.6	mm
OP		14.4 ±0.5	20.3 ±1.2	18.4 ±1.2	20.3 ±0.8	15.1 ±2.6	15.1 ±1.2	15.1 ±0.6	21.1 ±0.6	mm

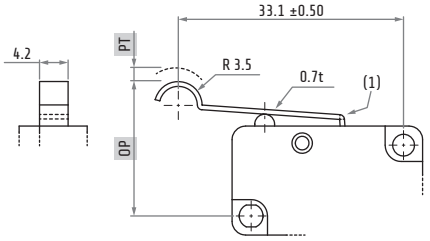
Dimensions in mm / illustrations NOT in scale (1) Stainless steel lever (2) Plastic material roller (3) Stainless steel roller



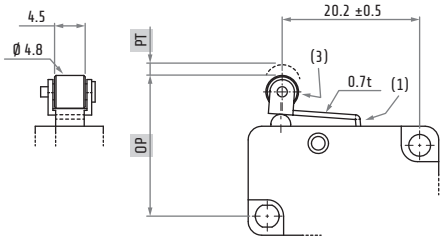
MFI.ST



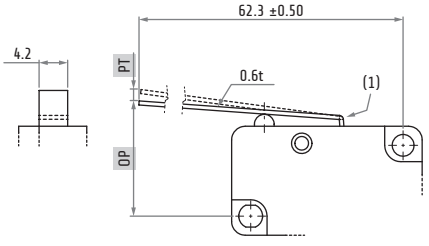
MFI.1ST



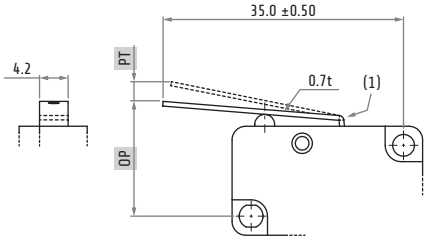
MFI.2ST



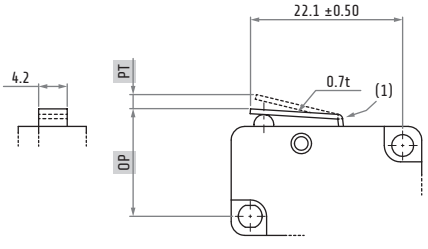
MFI.3ST



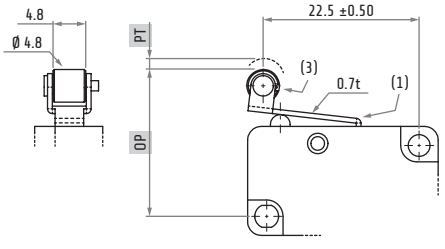
MFI.4ST



MFI.5ST



MFI.6ST



MFI.7ST

Microswitches with terminals with screws M3 for wire 1.5 mm² and plate protection

M	F	I	.		S	T	P

Compliance:
IEC/EN61058
UL1054

Series

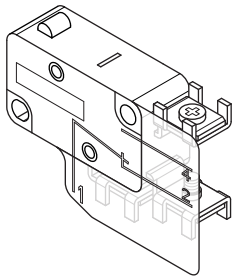
MFI microswitches

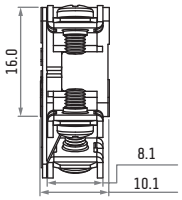
Actuator

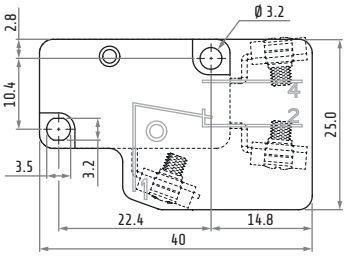
blank	pin plunger
1	long roller lever
2	simulated roller lever
3	roller lever
4	long lever
5	medium lever
6	short lever
7	16 mm roller lever

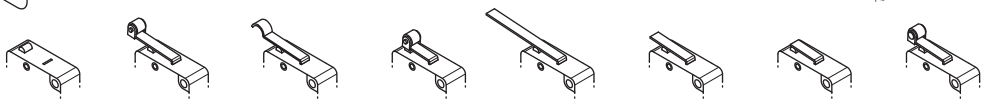
Terminal type and other features

STP screws M3 for wire 1.5 mm² and plate protection



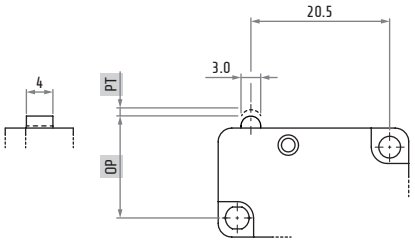




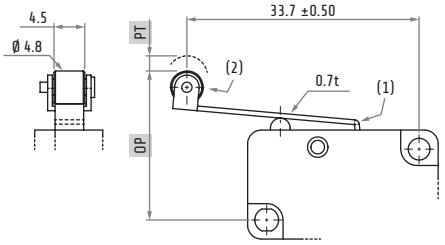


		MFI.STP	MFI.1STP	MFI.2STP	MFI.3S	MFI.4STP	MFI.5STP	MFI.6STP	MFI.7STP	
OF	max	5.1	3.2	3.2	5.1	1.3	3.2	5.1	4.5	N
RF	min	1.9	1.0	1.0	1.9	0.15	1.2	1.9	1.9	N
PT	max	1.4	3.3	3.3	1.4	7.6	3.3	1.6	1.8	mm
OT	min	0.8	0.8	0.8	0.6	2.2	0.8	0.6	0.8	mm
MD	max	0.3	0.8	0.8	0.6	2.2	0.8	0.6	0.6	mm
OP		14.4 ±0.5	20.3 ±1.2	18.4 ±1.2	20.3 ±0.8	15.1 ±2.6	15.1 ±1.2	15.1 ±0.6	21.1 ±0.6	mm

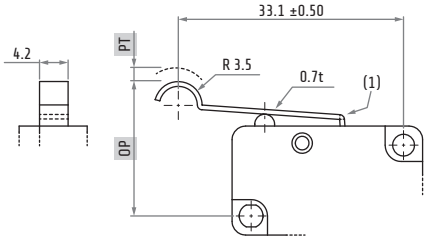
Dimensions in mm / illustrations NOT in scale (1) Stainless steel lever (2) Plastic material roller (3) Stainless steel roller



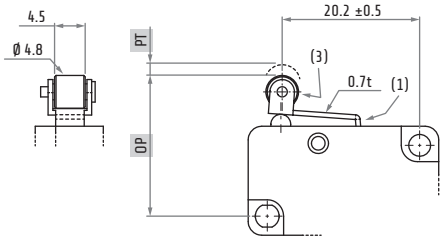
MFI.STP



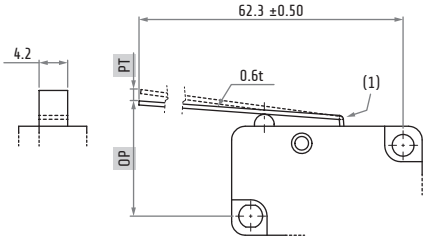
MFI.1STP



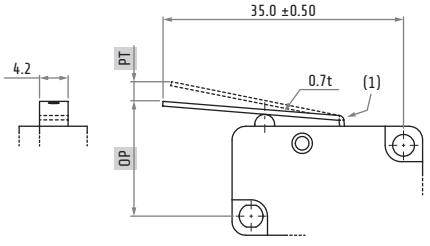
MFI.2STP



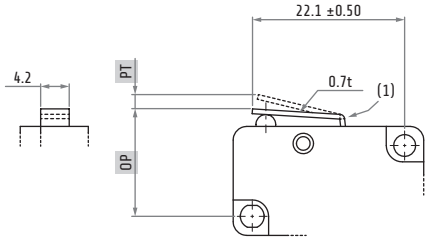
MFI.3STP



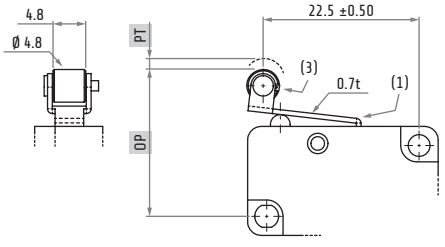
MFI.4STP



MFI.5STP



MFI.6STP



MFI.7STP

MFI.T

Microswitches with 6.3 × 0.8 mm faston terminals and tower actuator with threaded flange

M	F	I	.	T

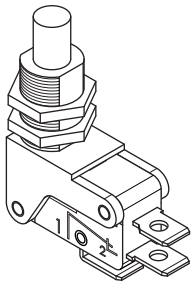
Compliance:
IEC/EN61058
UL1054

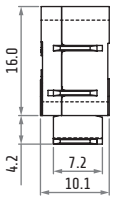
Series

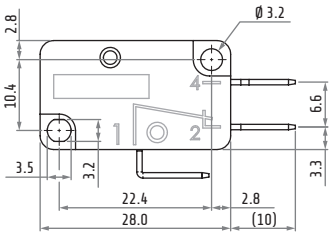
MFI microswitches

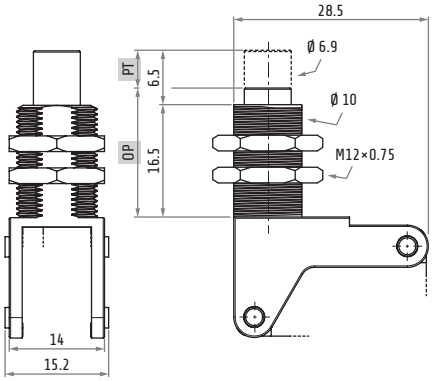
Actuator

T tower actuator with threaded flange









		MFI.T	
OF	max	6.0	N
RF	min	2.0	N
PT	max	2.2	mm
OT	min	3.3	mm
MD	max	0.5	mm
OP		21.2 ±0.8	mm

Dimensions in mm / illustrations NOT in scale (1) Stainless steel lever (2) Plastic material roller (3) Stainless steel roller