



# MFI...

## MICROSWITCHES



### ATTENTION

Before any installation or maintenance operation, disconnect the power supply to the system. Before restoring the power supply, make sure that all connections to the device have been made correctly. Giovenzana International B.V. disclaims any responsibility for any damage to things and people caused by non-compliance with the rules described here.



Before use, read this booklet carefully to acquaint yourself with the features of the product. This booklet is an integral part of the product and therefore must be kept until the product is dismissed.



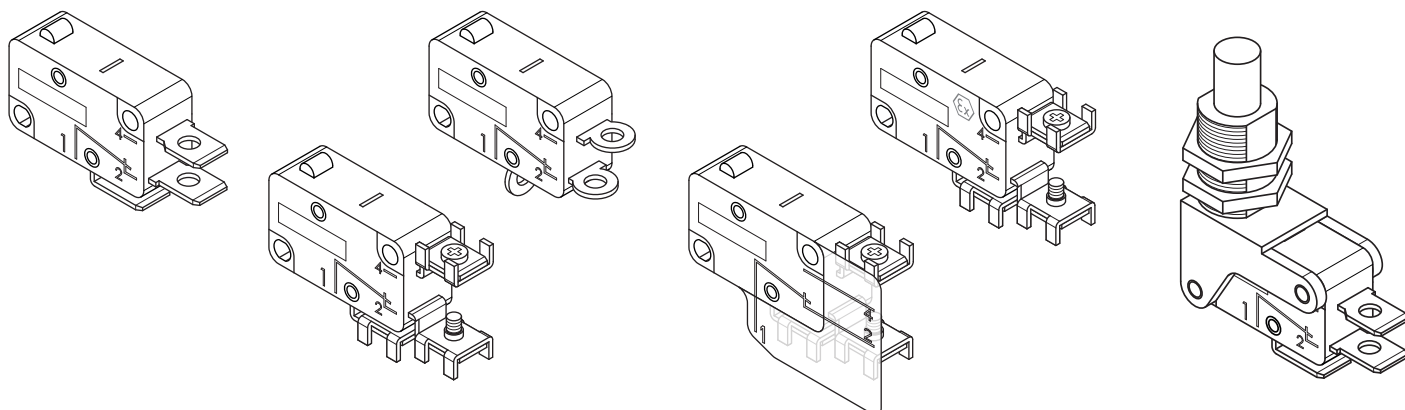
Giovenzana International B.V. reserves the right to change the features and data shown in this document at any time and without notice. This document cannot therefore be considered a contract with third parties.



Any improper installation or any tampering of the device may cause serious personnel injury or property damage, therefore, the installation and maintenance must be performed by specialized and authorized personnel.



The use of this device is not allowed in environment with a potentially explosive atmosphere or in presence of corrosive substances and in salt spray.





#### Series





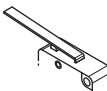



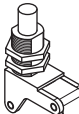





**MFI** microswitches

#### Actuator

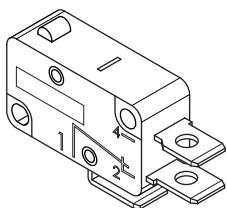
blank pin plunger  
**1** long roller lever  
**2** simulated roller lever  
**3** roller lever  
**4** long lever  
**5** medium lever  
**6** short lever  
**7** 16 mm roller lever

#### Terminal type and other features

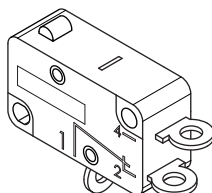
blank 6.3 × 0.8 mm faston  
**S** solder contact  
**ST** screws M3 for wire 1.5 mm<sup>2</sup>  
**STP** screws M3 for wire 1.5 mm<sup>2</sup> and plate protection  
**T** tower actuator with threaded flange

									
	MFI	MFI.1	MFI.2	MFI.3	MFI.4	MFI.5	MFI.6	MFI.7	-
	MFI.S	MFI.1S	MFI.2S	MFI.3S	MFI.4S	MFI.5S	MFI.6S	MFI.7S	-
	MFI.ST	MFI.1ST	MFI.2ST	MFI.3ST	MFI.4ST	MFI.5ST	MFI.6ST	MFI.7ST	-
	MFI.STP	MFI.1STP	MFI.2STP	MFI.3STP	MFI.4STP	MFI.5STP	MFI.6STP	MFI.7STP	-
	-	-	-	-	-	-	-	-	MFI.T

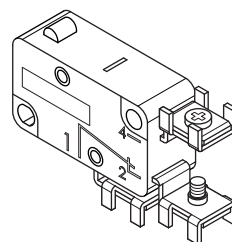
**MFI**  
Microswitches with 6.3 × 0.8 mm faston terminals



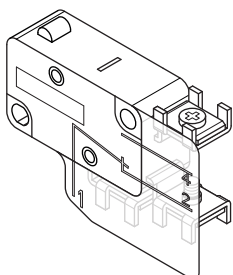
**MFI.S**  
Microswitches with solder contact terminals



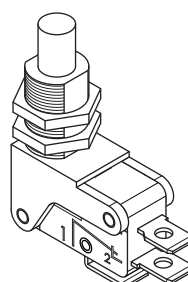
**MFI.ST**  
Microswitches with terminals with screws M3 for wire 1.5 mm<sup>2</sup>



**MFI.STP**  
Microswitches with terminals with screws M3 for wire 1.5 mm<sup>2</sup> and plate protection

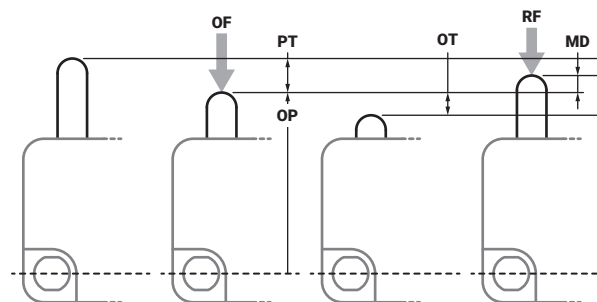


**MFI.T**  
Microswitches with 6.3 × 0.8 mm faston terminals and tower actuator with threaded flange



Operating temperature		-25 ... +85°C -13 ... +185°F
Minimum life expectancy		
mechanical		1 × 10 <sup>6</sup> cycles
electrical		5 × 10 <sup>5</sup> cycles
Rated thermal current	I <sub>th</sub>	8 A
Rated insulation voltage	U <sub>i</sub>	250 V
Rated impulse withstand voltage	U <sub>imp</sub>	1500 V
Rated operating current	i <sub>e</sub>	
resistive load		8 A - 250 V
inductive load		3 A - 250 V
Pollution degree		2
Protection against electric shock		class II
Marking		CE, CCC, cRUus, UKCA

<b>OF</b>	<b>[N]</b>	<b>Operating force</b> Force, applied to the actuator, required to operate the contacts
<b>RF</b>	<b>[N]</b>	<b>Release force</b> Value to which the force applied to the actuator must be reduced to allow the contacts to return to the release position and reset
<b>PT</b>	<b>[mm]</b>	<b>Pretravel</b> The distance or angle that the operator travels from the starting position to the operating position
<b>OP</b>	<b>[mm]</b>	<b>Operating position</b> Position of the actuator in which the contacts are activated with a snap action, reached when the actuating force is applied
<b>OT</b>	<b>[mm]</b>	<b>Overtravel</b> The distance or angle that the operator travels from the operating position to the total travel position
<b>MD</b>	<b>[mm]</b>	<b>Differential movement</b> The distance or angle that the operator travels from the activation position to the release position in which the reset occurs

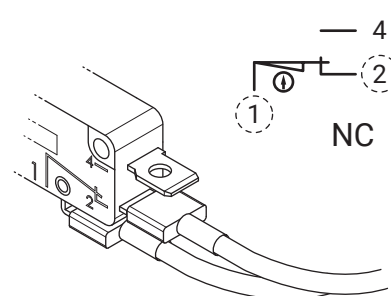
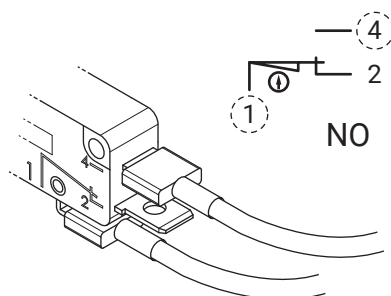


The wiring of the microswitches can be carried out to obtain an NO contact, an NC contact or both.

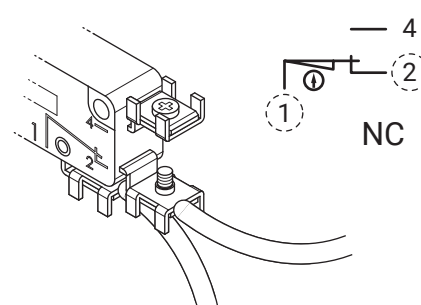
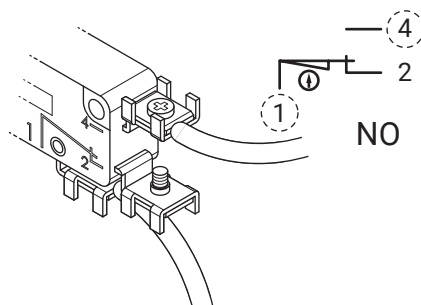
NO

NC

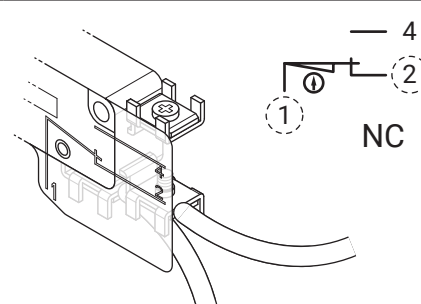
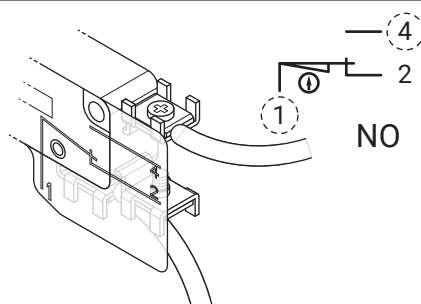
To wire the microswitches it is necessary to use fastons suitable for a 6.3×0.8 mm contact.



To wire the microswitches it is necessary to strip the end of the cable (1.5 mm<sup>2</sup>) and screw it into the terminal (M3 screws).

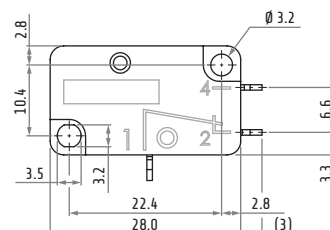
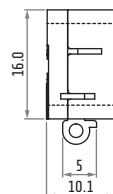
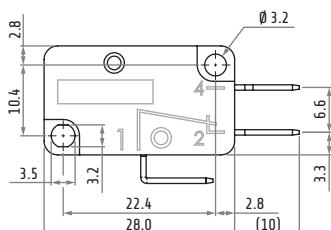
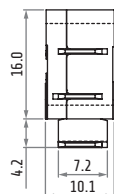


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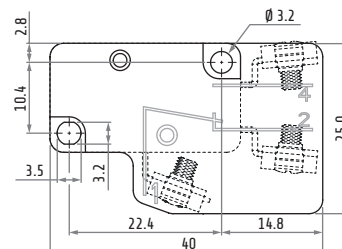
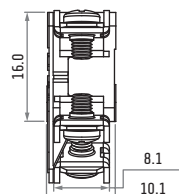
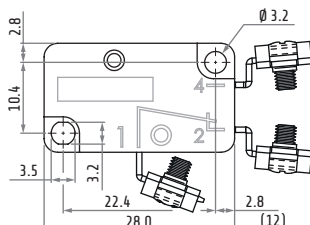
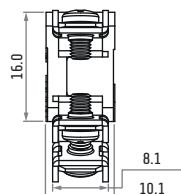
MFI

MFI.S

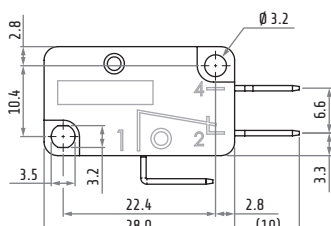
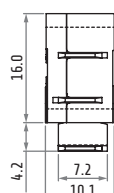


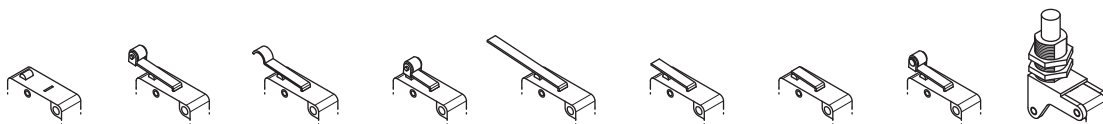
MFI.ST

MFI.STP



MFI.T





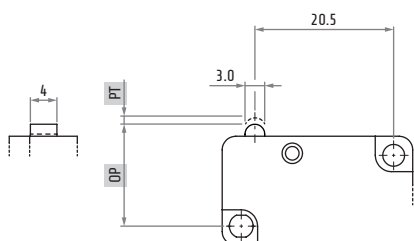
		MFI...	MFI.1...	MFI.2...	MFI.3...	MFI.4...	MFI.5...	MFI.6...	MFI.7...	MFI.T	
OF	max	5.1	3.2	3.2	5.1	1.3	3.2	5.1	4.5	6.0	N
RF	min	1.9	1.0	1.0	1.9	0.15	1.2	1.9	1.9	2.0	N
<b>PT</b>	max	1.4	3.3	3.3	1.4	7.6	3.3	1.6	1.8	2.2	mm
OT	min	0.8	0.8	0.8	0.6	2.2	0.8	0.6	0.8	3.3	mm
MD	max	0.3	0.8	0.8	0.6	2.2	0.8	0.6	0.6	0.5	mm
<b>OP</b>		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	21.2 ±0.8	mm

Dimensions in mm / illustrations NOT in scale

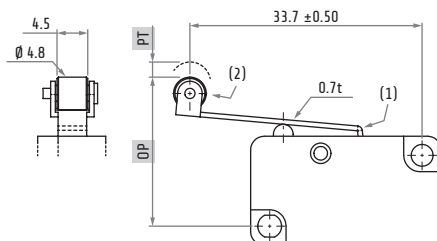
(1) Stainless steel lever

(2) Plastic material roller

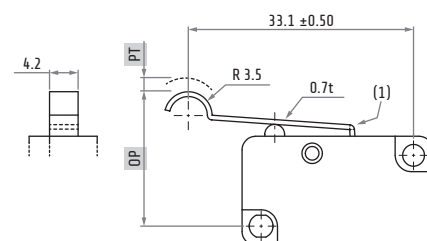
(3) Stainless steel roller



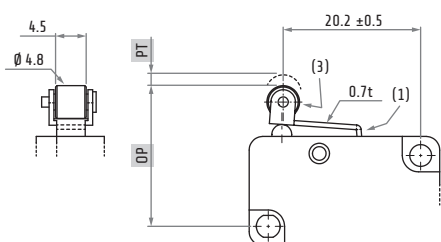
**MFI...**



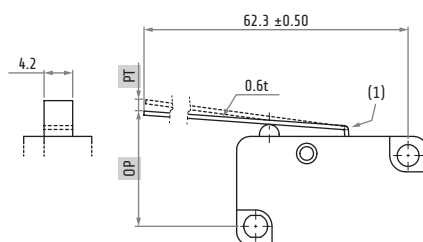
**MFI.1...**



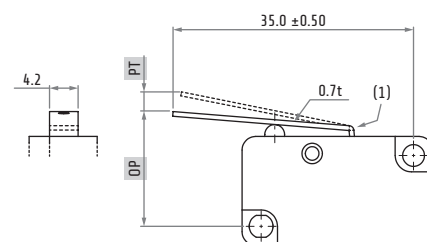
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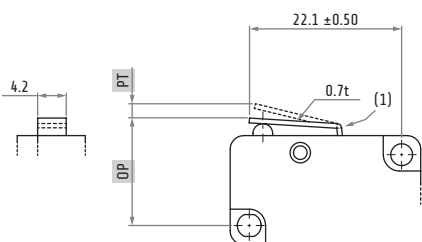
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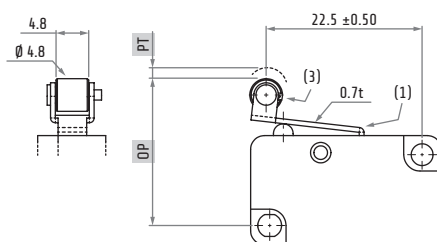
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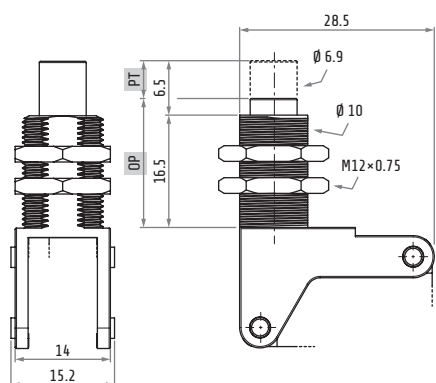
**MFI.5...**



**MFI.6...**



**MFI.7...**



**MFI.T**