

# NS subminiature Series

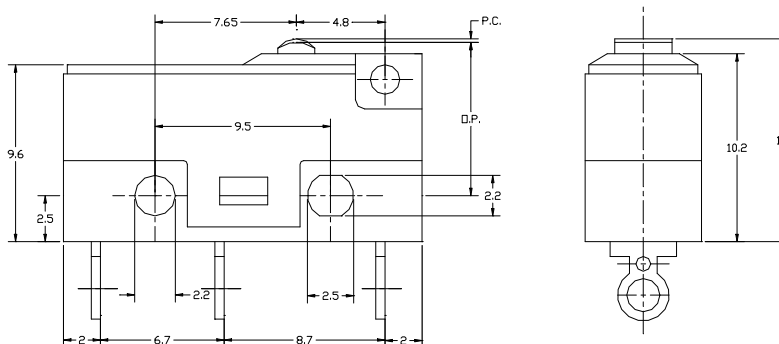


## CARATTERISTICHE GENERALI / GENERAL CHARACTERISTICS

| Versione / Version   | ZN                                  | ZL |
|--|-------------------------------------|----|
| Carico nominale a 250V A.C. / Rated load at 250V A.C.                      | 3A                                  | 1A |
| Temperatura ambiente / Ambient temperature limits                          | -20°+ 85°C                          |    |
| Grado di protezione / Degree of protection IP                              | 00                                  |    |
| Classe di isolamento / Degree of protection against electric shock         | I                                   |    |
| Cicli di vita meccanica / Nu. of mechanical cycles                         | 10 M at 1Hz                         |    |
| Cicli di vita elettrica / Nu. of electrical cycles                         | 50 000 (5E4)                        |    |
| Indice di resistenza alle correnti superficiali / PTI Proof tracking index | 250 V                               |    |
| Tensione di tenuta ad impulso / Rated impulse withstand voltage            | 2,5 kV                              |    |
| Tipo di cablaggio / Type of conductor to be connected to the terminals     | Flexible conductor 1mm <sup>2</sup> |    |
| Approvazioni / Approvals   | IMQ ; UL                            |    |
| Norma / Standard   | EN61058-A1:2002+A2:2008             |    |

## DIMENSIONI / DIMENSIONS

### NS1ZN



## CODIFICA / CODE EXPLANATION

| Serie / Series  | NS | 123 | ZN | - |
|---|----|-----|----|---|
| <b>Sovrastrutture di azionamento / Actuators</b>  |    |     |    |   |
| <b>1</b> = Pulsantino base / <i>Basic pin plungers</i><br><b>20 – 123</b> = Leva / <i>Lever</i> |    |     |    |   |
| <b>Versione / Version</b>   |    |     |    |   |

**ZL** = Forza azionante bassa / *Low operating force*

**ZN** = Forza azionante standard / *Standard operating force*

### Terminali / Terminals

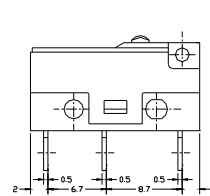
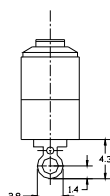
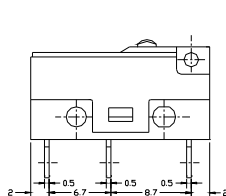
- (**omessi** / *blank*) = Terminali a saldare / *Solder Terminals*

**5** = Attacco faston da 2.8X0.8mm / *Quick connect 2.80x0.80mm*

**6** = Terminali per circuito stampato / *Printed Circuit Terminals*

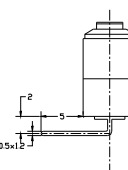
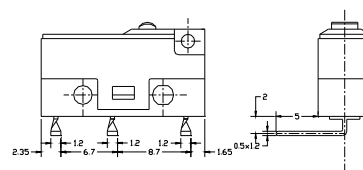
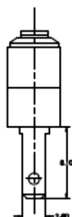
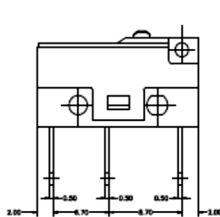
**7** = Terminali per circuito stampato, piegati a 90°sx / *Printed Circuit, left angle terminals*

**8** = Terminali per circuito stampato, piegati a 90°dx / *Printed Circuit, right angle terminal*



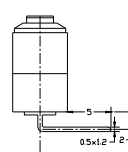
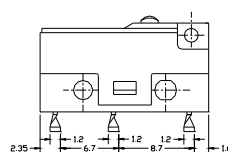
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**6** = Terminali per circuito stampato / *Printed Circuit Terminals*



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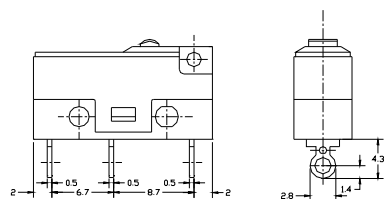
**7** = Terminali per circuito stampato, piegati a 90° sx / *Printed Circuit, left angle terminals*



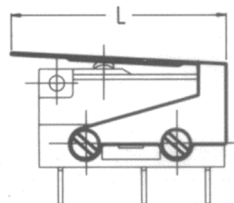
**8** = Terminali per circuito stampato, piegati a 90°dx / *Printed Circuit, right angle terminals*

## SOVRASTRUTTURE DI AZIONAMENTO / ACTUATORS

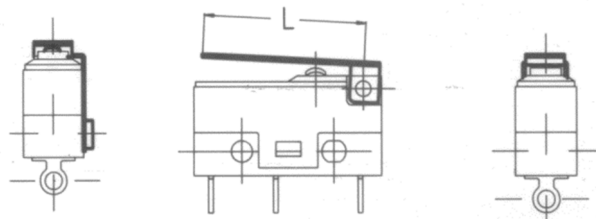
**NS1ZN**



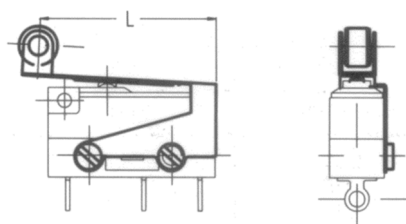
**NS20ZN**



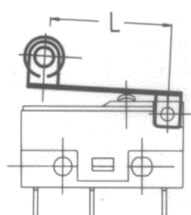
**NS25ZN ÷ NS27ZN & NS60ZN**



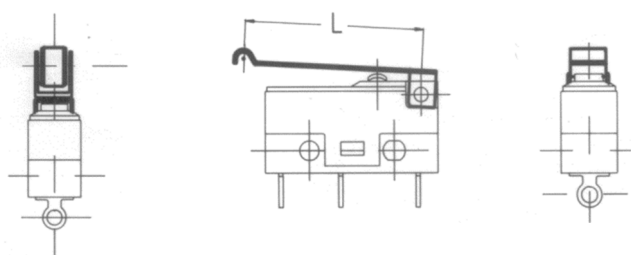
**NS30ZN**



**NS35ZN ÷ NS37ZN**



**NS123ZN**



| Modello<br><i>Model</i> | F.A./O.F. max<br>gr | F.R./R.F. min<br>gr | P.C./P.T. max<br>mm | C.D./D.T. max<br>mm | O.C./O.T. min<br>mm | P.S./S.P. med<br>mm | L<br>mm |
|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------|
| <b>NS1 ZN</b>           | 200                 | 30                  | 0.5                 | 0.15                | 0.15                | 8.8 ± 0.4           |         |
| <b>NS1 ZL</b>           | 81                  | 25                  | 0.5                 | 0.15                | 0.15                | 8.8 ± 0.4           |         |
| <b>NS20 ZN</b>          | 250                 | 50                  | 2.0                 | 1.0                 | 0.4                 | 10.0 ± 1.0          | 22.5    |
| <b>NS25 ZN</b>          | 55                  | 8.0                 | 1.9                 | 0.6                 | 0.6                 | 10.0 ± 1.0          | 18      |
| <b>NS26 ZN</b>          | 45                  | 6.5                 | 2.3                 | 0.7                 | 0.7                 | 10.0 ± 1.0          | 22      |
| <b>NS27 ZN</b>          | 35                  | 5.0                 | 2.8                 | 0.9                 | 0.9                 | 10.0 ± 1.0          | 27      |
| <b>NS30 ZN</b>          | 280                 | 50                  | 2.0                 | 1.0                 | 0.4                 | 15.0 ± 1.0          | 20.5    |
| <b>NS35 ZN</b>          | 60                  | 9.0                 | 1.7                 | 0.5                 | 0.5                 | 15.5 ± 1.0          | 16      |
| <b>NS36 ZN</b>          | 50                  | 7.5                 | 2.1                 | 0.6                 | 0.6                 | 15.5 ± 1.0          | 20      |
| <b>NS37 ZN</b>          | 40                  | 6.0                 | 2.6                 | 0.8                 | 0.8                 | 15.5 ± 1.0          | 25      |
| <b>NS60 ZN</b>          | 15                  | 3.0                 | 6.0                 | 1.8                 | 1.8                 | 10.0 ± 1.0          | 60      |
| <b>NS123 ZN</b>         | 55                  | 8.0                 | 2.0                 | 0.6                 | 0.6                 | 12.0 ± 1.0          | 18.8    |

### AVVERTENZE / CAUTION:

Quando si saldano i terminali sul circuito stampato, utilizzare un saldatore da 30 Watt per non più di tre secondi.  
Lasciar raffreddare i terminali saldati per almeno un minuto e controllare che ogni terminale sia adeguatamente isolato l'uno dall'altro.

*When soldering terminals on printed circuit, apply a soldering iron rated at 30W and finish within three seconds.  
After that, do not move terminals at least one minute. Make sure the terminals of switch are properly insulated each other.*

**F.A.:** Forza Azionante / **O.F.:** Operating Force  
**F.R.:** Forza di Ritorno / **R.F.:** Releasing Force  
**P.C.:** Precorsa / **P.T.:** Pre Travel  
**C.D.:** Corsa Differenziale / **D.T.:** Differential Travel

**O.C.:** Oltre Corsa / **O.T.:** Over Travel  
**P.S.:** Posizione di Scatto / **S.P.:** Snapping Position  
**L:** Lunghezza Azionatore / **L:** Actuator Length



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