

Dimensioni

Dimensions

Interruttori serie CM unipolari e bipolari

Realizzata in due versioni, unipolare e bipolare, con contatti in interruzione e commutazione la serie CM soddisfa qualsiasi esigenza di circuito elettrico.

Per poter facilitare l'applicazione del componente è stato realizzato, oltre al sistema tradizionale col dado, un sistema a clips che permette un semplice e rapido montaggio.

Single and double pole CM series switches

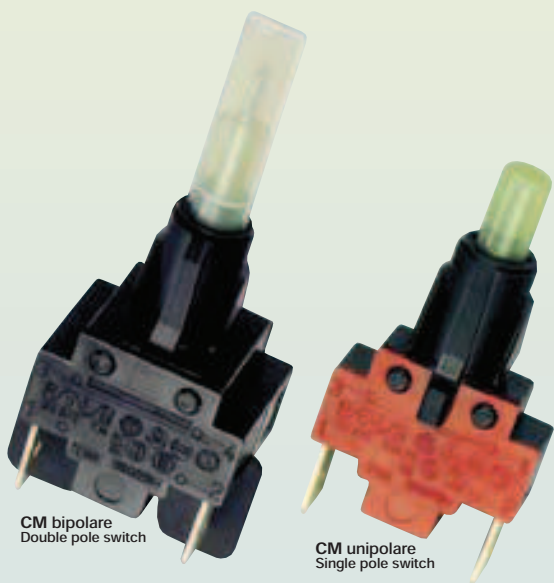
Single or double pole models are available to meet the requirements of any normal circuit.

A specialized push-fit system is also available to give quicker and easier mounting in addition to the traditional nut fixing method.

L'interruttore CM può essere applicato mediante una squadretta ad una o più posizioni, o direttamente sul telaio dell'apparecchio utilizzatore.

Se montato in serie l'interruttore costituisce un'alternativa alle comuni pulsantiere con il vantaggio di un'applicazione a passo fisso o variabile e di una indipendenza tra un tasto e l'altro semplificando, in caso di guasto, la sostituzione del pezzo difettoso.

The CM switches can be mounted individually directly on the unit to which they are applied. Alternatively, one or more switches can be pre-mounted on a bracket. In multiple applications where switches are intended to be independent of each other, they can readily be used to replace current fixed centre units because the spacing can be fixed or variable.

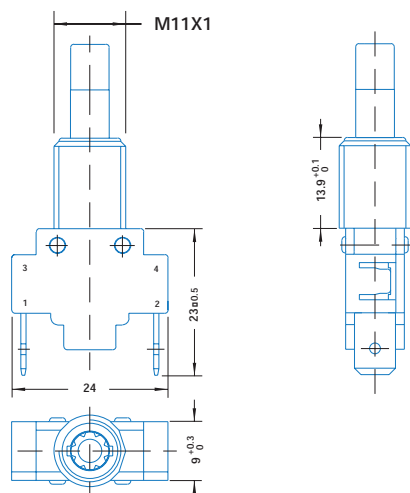


CM bipolare
Double pole switch

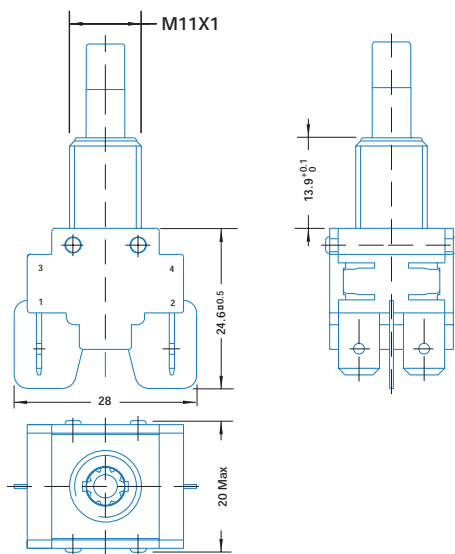
CM unipolare
Single pole switch

Versione a filetto
Nut fixing version

1 Interruttore CM unipolare a filetto
Nut fixing single pole CM switch



2 Interruttore CM bipolare a filetto
Nut fixing double pole CM switch

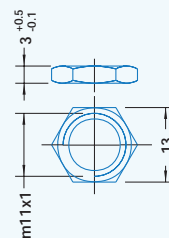


Forza massima di serraggio consigliata: 2,5 Nm
Suggested max tightening force: 2,5 Nm

Dadi esagonali
Hexagonal nuts

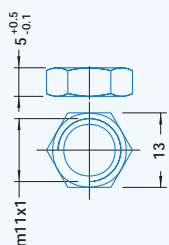
1

MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT
ACCIAIO STEEL	ZINCATURA NERA BLACK GALVANIZATION ZINC PLATING
ACCIAIO STEEL	ZINCATURA BIANCA WHITE GALVANIZATION ZINC PLATING



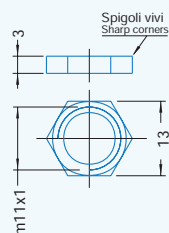
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MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT
ACCIAIO STEEL	ZINCATURA BIANCA WHITE GALVANIZATION ZINC PLATING



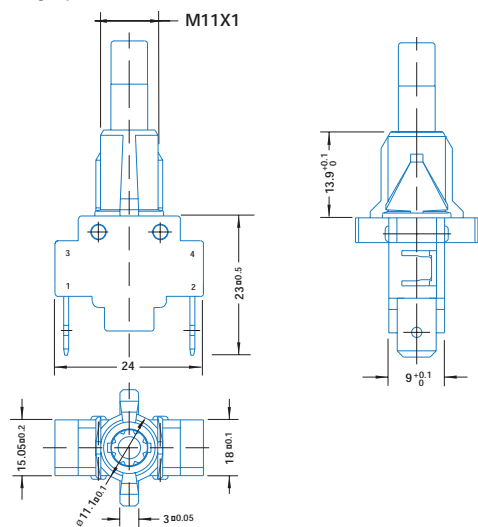
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MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT
OTTONE BRASS	NICHELATURA NICKEL PLATING

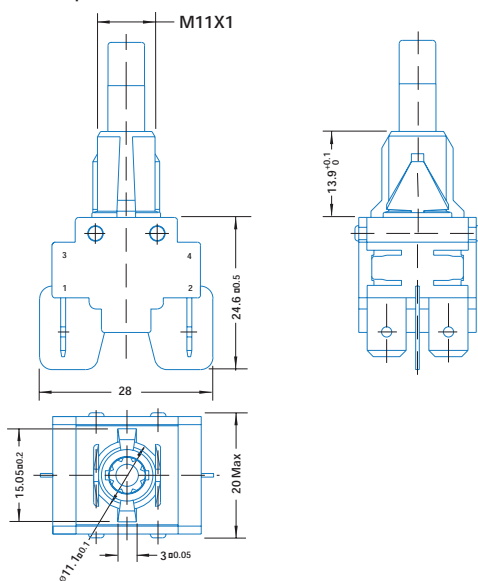


Versione a scatto
Push-fit fixing version

1 Interruttore CM unipolare a scatto
Push-fit single pole CM switch



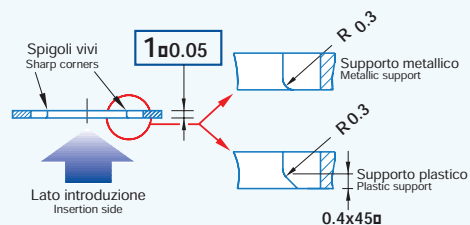
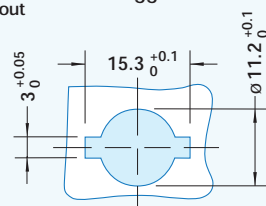
2 Interruttore CM bipolare a scatto
Push-fit double pole CM switch



Foro di fissaggio
Panel cut-out

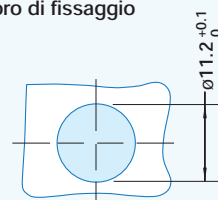
Versione a scatto
Push-fit fixing version

Dimensioni foro di fissaggio
Panel cut-out



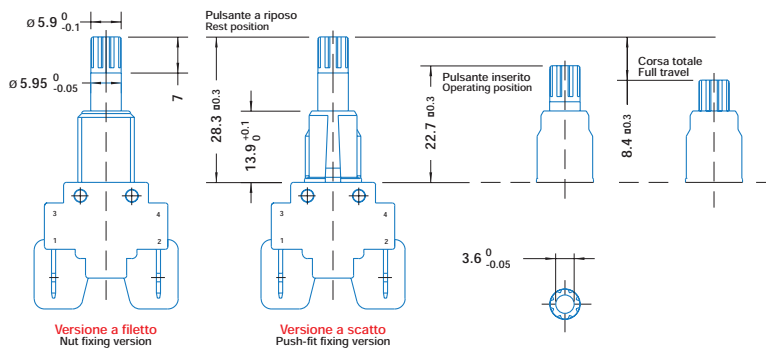
Versione a filetto
Nut fixing version

Dimensioni foro di fissaggio
Panel cut-out

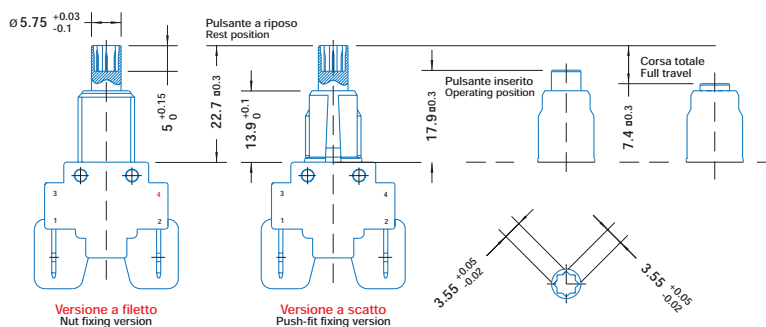


Aste di comando e corse (versione standard)

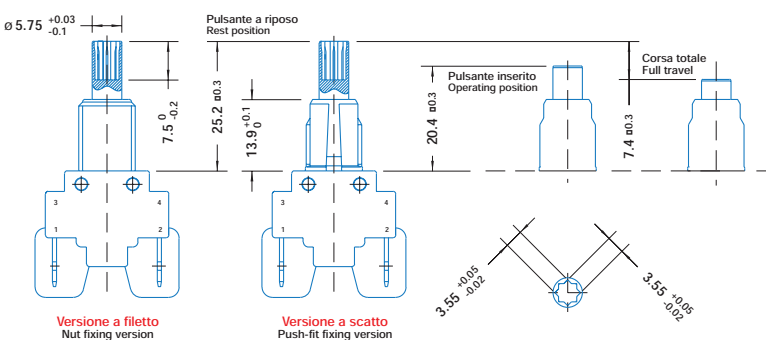
1 Pulsante tipo tondo standard



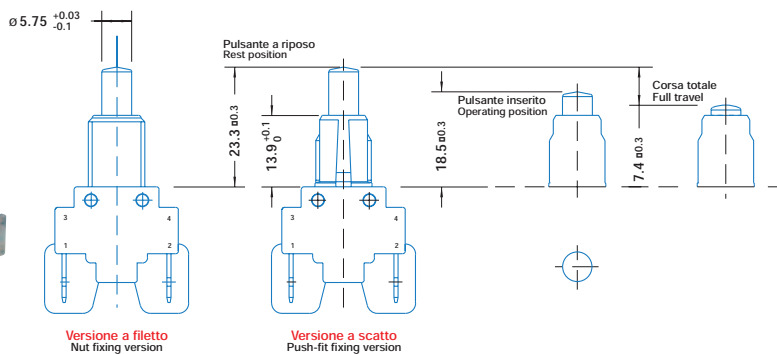
2 Pulsante tipo DOMINO basso



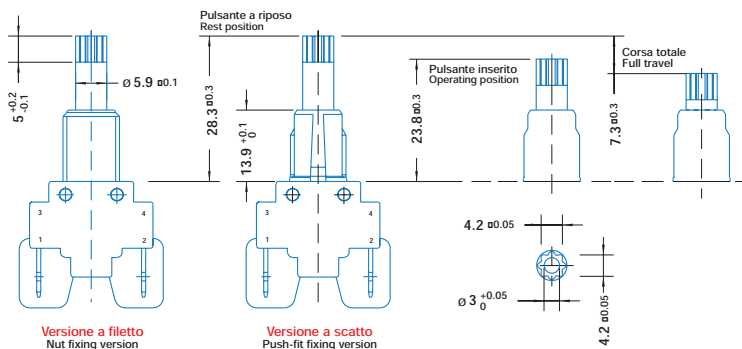
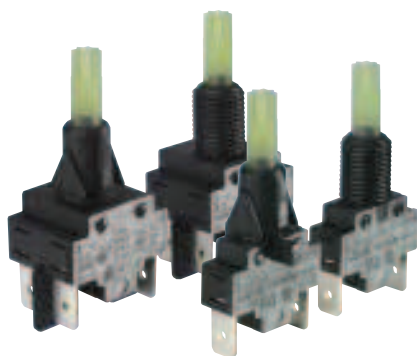
3 Pulsante tipo DOMINO alto High DOMINO shaft



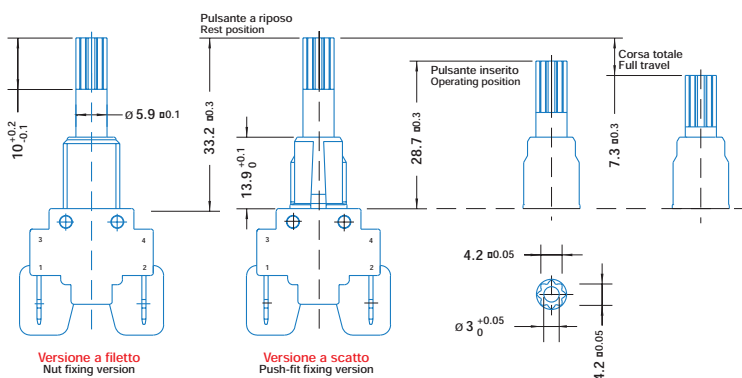
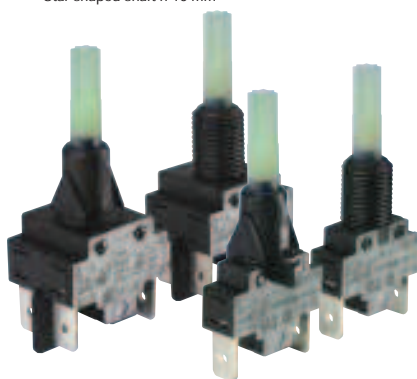
4 Pulsante a testa bombata



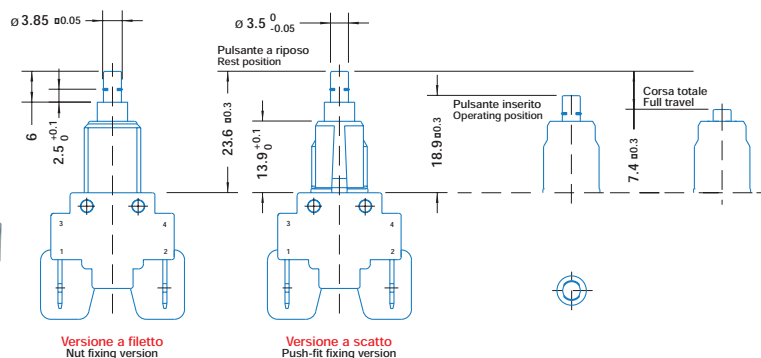
5 Pulsante a stella h 5 mm Star shaped shaft h 5 mm



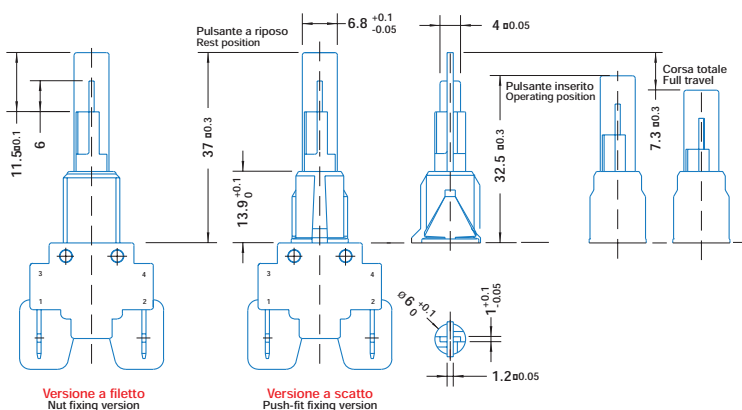
6 Pulsante a stella h 10 mm Star shaped shaft h 10 mm



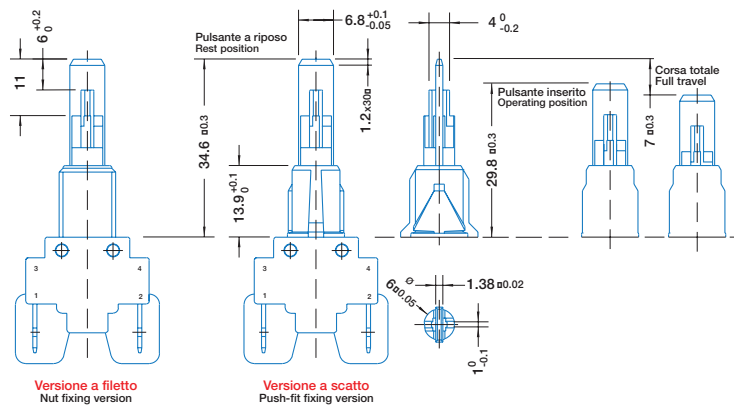
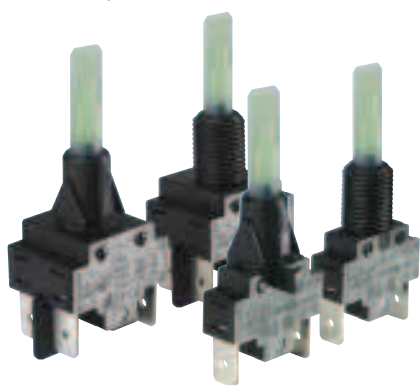
7 Pulsante aggancio tondo a scatto Round push-fit fixing shaft



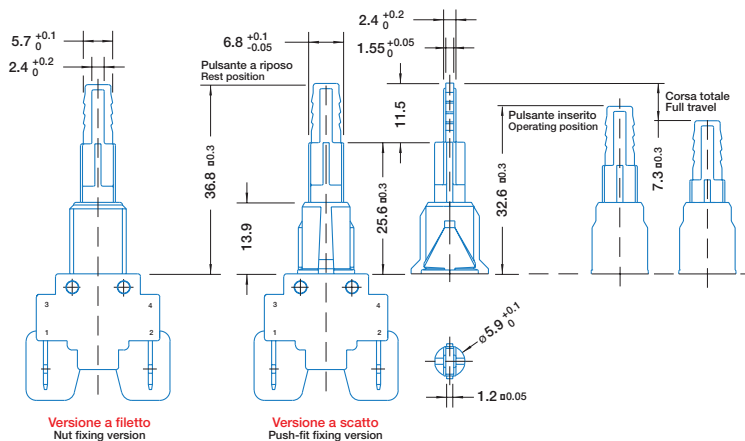
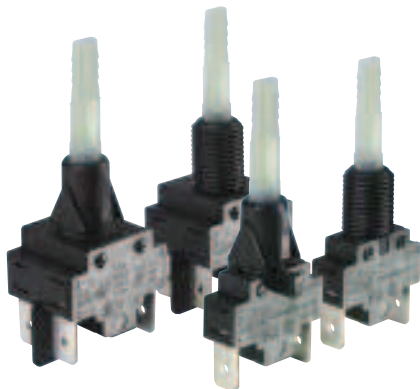
8 Pulsante a croce spessore 1,2 mm Cross shaped shaft, Th 1,2 mm



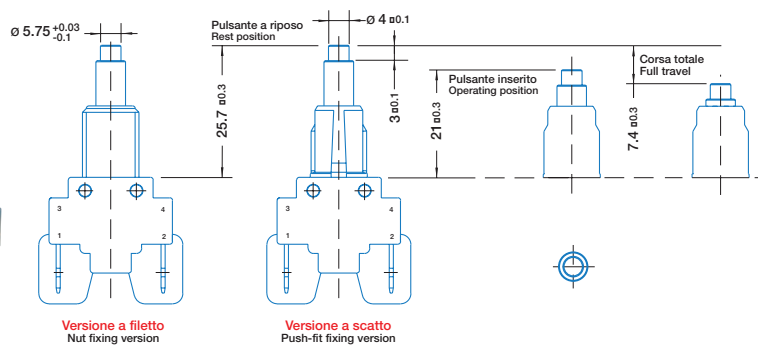
9 Pulsante a croce spessore 1,38 mm Cross shaped shaft, Th 1,38 mm



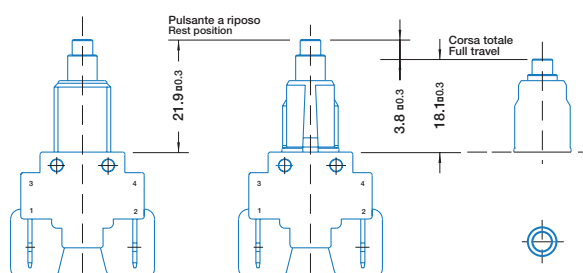
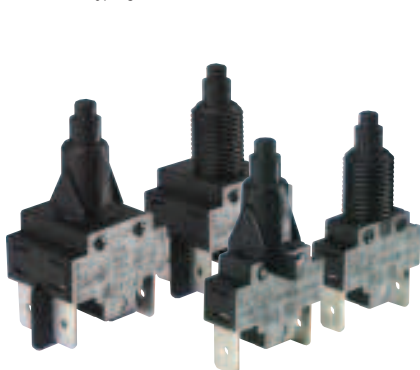
10 Pulsante a croce dentata Toothed cross shaft



11 Pulsante per accensione tipo alto High type ignition shaft



12 Pulsante per accensione tipo basso Low type ignition shaft



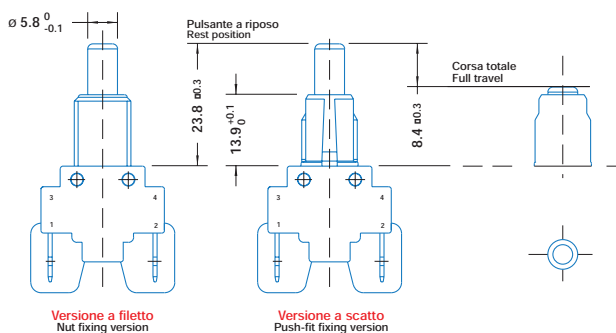
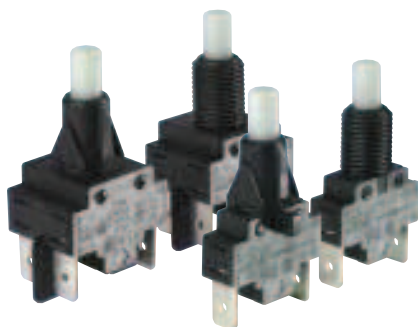
Disponibile soltanto nella versione
a contatto momentaneo
Available in the momentary version only

13 Pulsante basso a testa piana

Flat head low type shaft

Disponibile soltanto nella versione
a contatto momentaneo

Available in the momentary version only

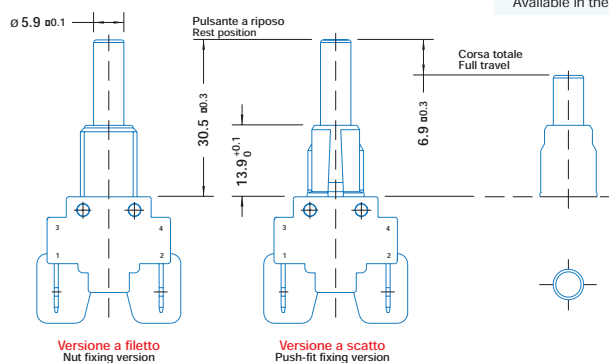
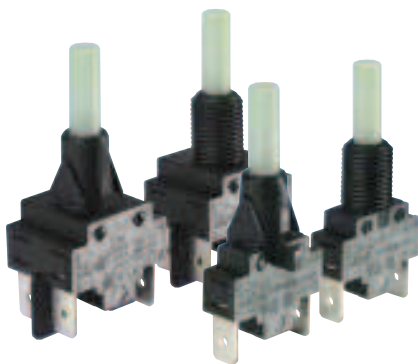


14 Pulsante alto a testa piana

Flat head high type shaft

Disponibile soltanto nella versione
a contatto momentaneo

Available in the momentary version only

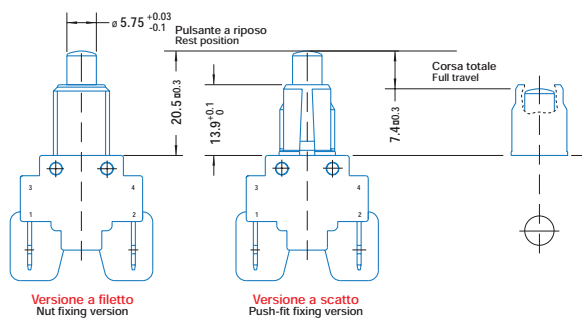
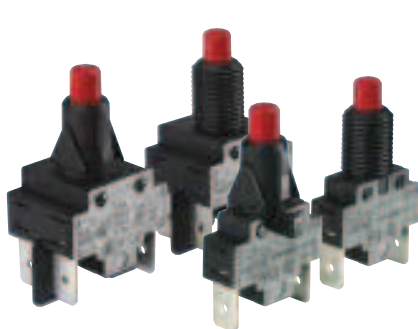


15 Pulsante basso a testa bombata

Crowned head low type shaft

Disponibile soltanto nella versione
a contatto momentaneo

Available in the momentary version only

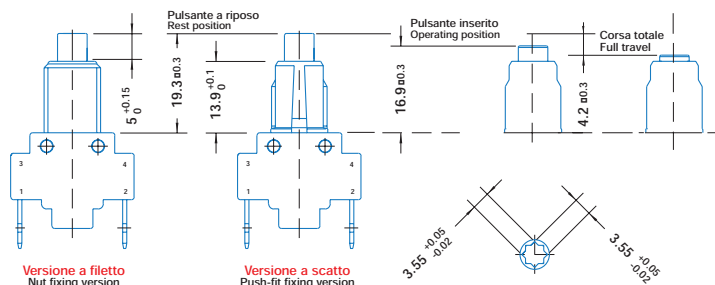


Aste di comando e corse (versione corsa breve)

Shaft shapes and travel (short travel version)

A Pulsante tipo DOMINO basso Low DOMINO shaft

Interruttore CM unipolare (corsa 4,2 mm) Single pole CM switch (travel 4,2 mm)



Interruttore CM unipolare

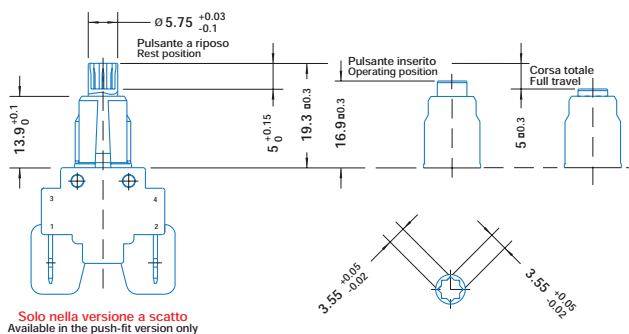
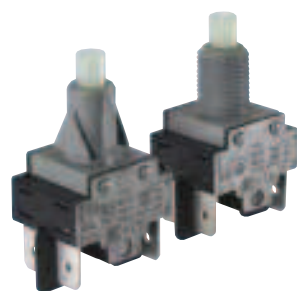
L'interruttore CM unipolare a corsa breve può essere prodotto sia nella versione a scatto che in quella a filetto. L'asta di comando oltre a quella esemplificata in figura è disponibile anche nelle versioni n° 1 - 3 - 4 - 5 - 6 - 7 - 11 - 13 - 14 (vedere versione standard).

Single pole CM switch

Short travel single pole CM switch, can be manufactured either in the push-fit or nut mounting version. The shaft, besides the one showed hereunder is also available in the versions n° 1 - 3 - 4 - 5 - 6 - 7 - 11 - 13 - 14 (see standard version).

B Pulsante tipo DOMINO basso Low DOMINO shaft

Interruttore CM bipolare (corsa 4,2 mm) Double pole CM switch (travel 4,2 mm)



Interruttore CM bipolare

L'interruttore CM bipolare a corsa breve può essere prodotto solo nella versione a scatto. L'asta di comando oltre a quella esemplificata in figura è disponibile anche nelle versioni n° 1 - 3 - 4 - 5 - 6 - 7 - 11 - 13 - 14 (vedere versione standard).

Double pole CM switch

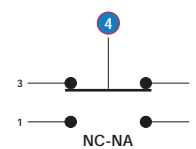
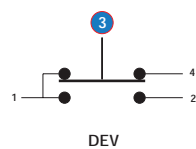
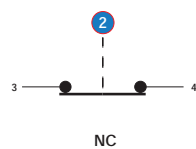
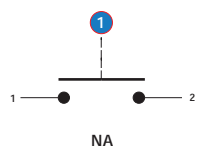
Short travel double pole CM switch, can be manufactured in the push-fit version only. The shaft, besides the one showed hereunder is also available in the versions n° 1 - 3 - 4 - 5 - 6 - 7 - 11 - 13 - 14 (see standard version).

Schemi elettrici

Electric diagrams

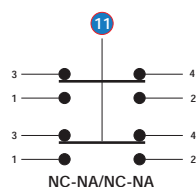
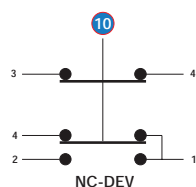
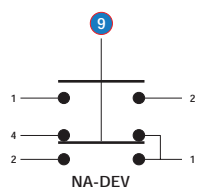
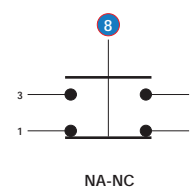
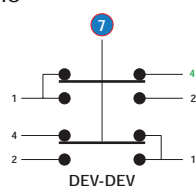
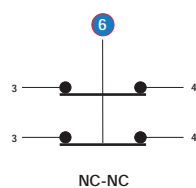
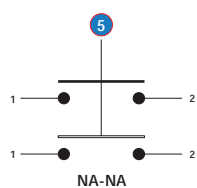
UNIPOLARI

Single pole

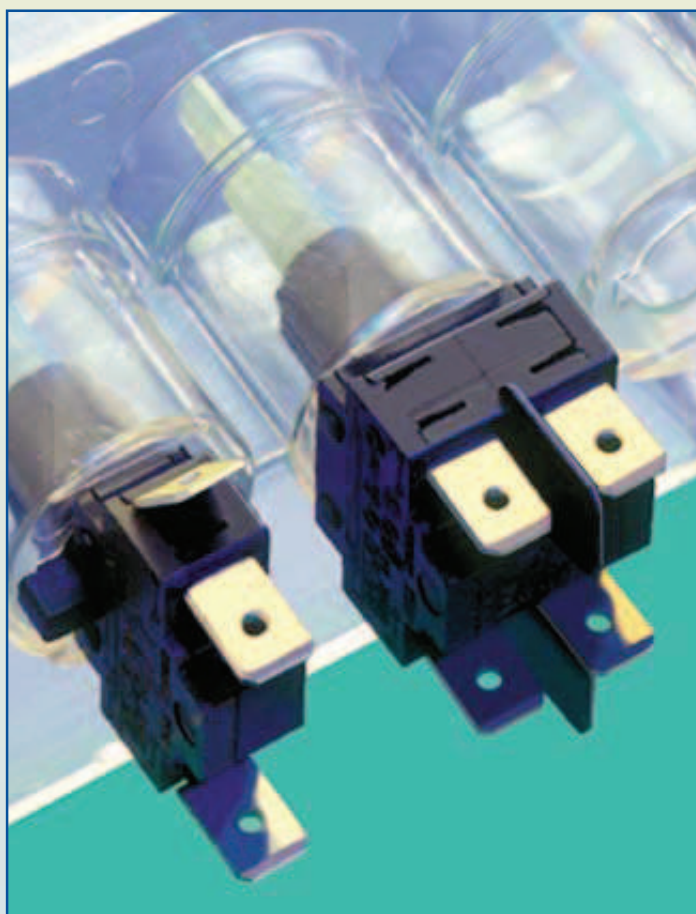


BIPOLARI

Double pole



NA = NO
NC = NC
DEV = Changeover



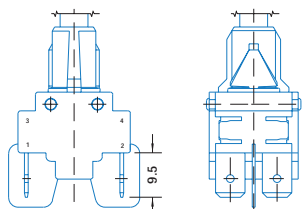
Uscite faston

Terminal outlets

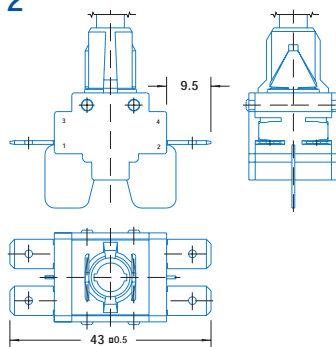
Interruttori CM bipolari NA-NA

NO-NO double pole CM series switches

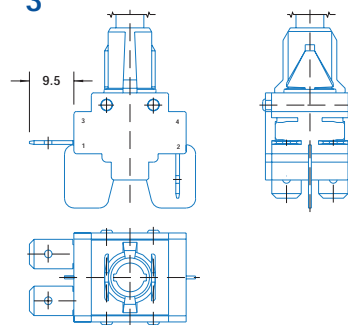
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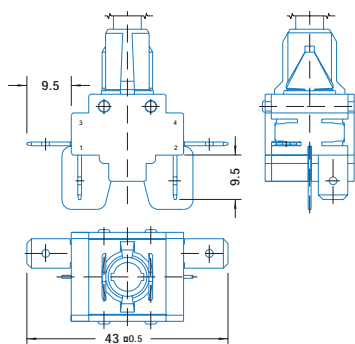
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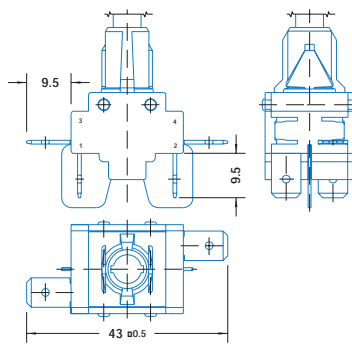
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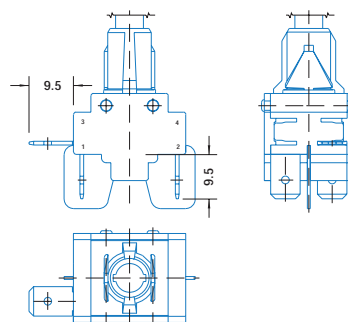
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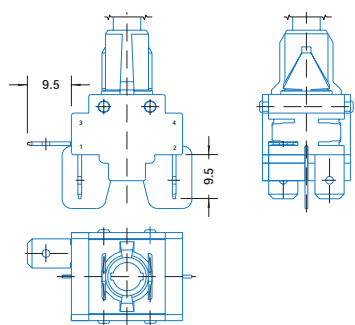
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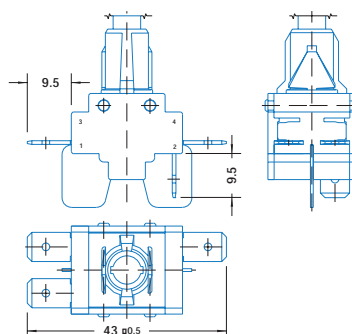
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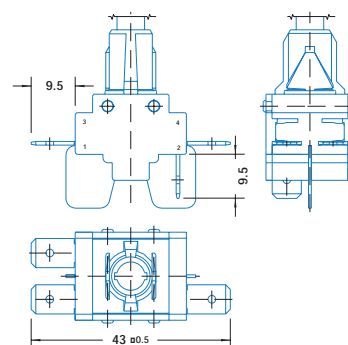
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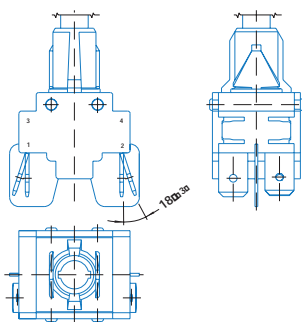
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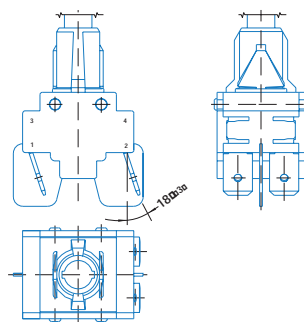
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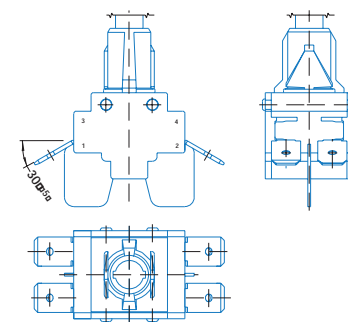
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11



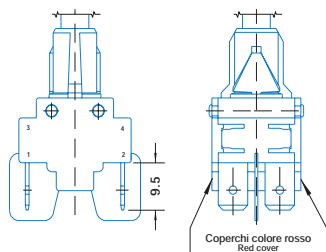
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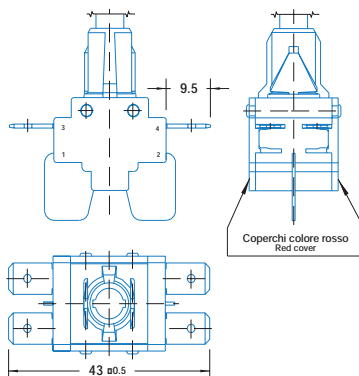
Interruttori CM bipolari NC-NC

NC-NC double pole CM series switches

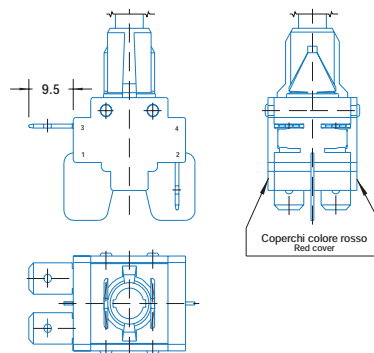
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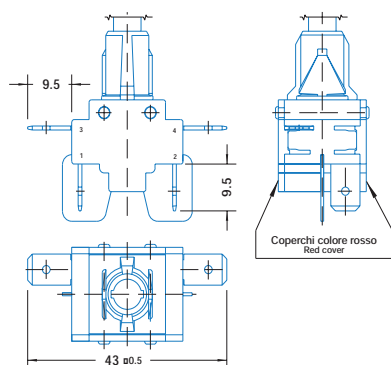
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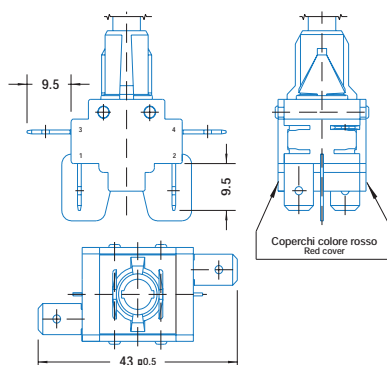
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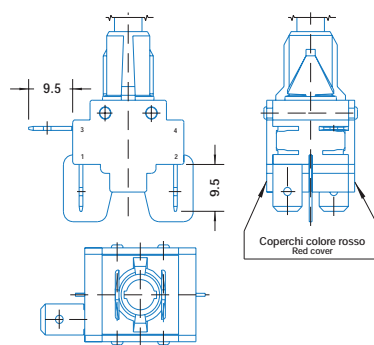
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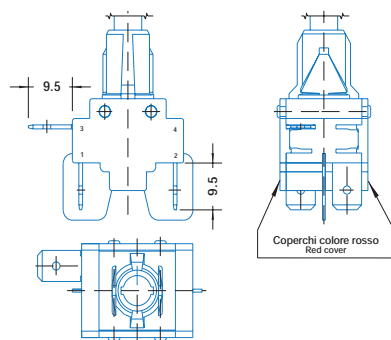
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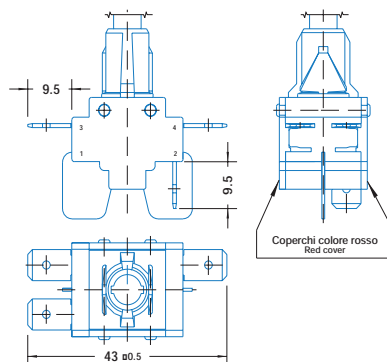
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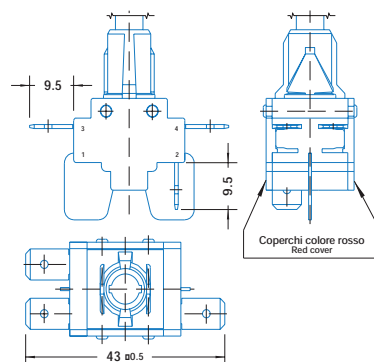
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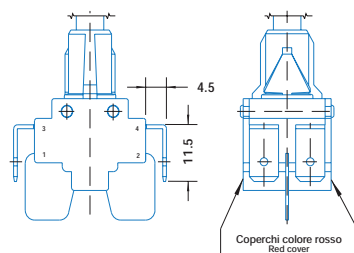
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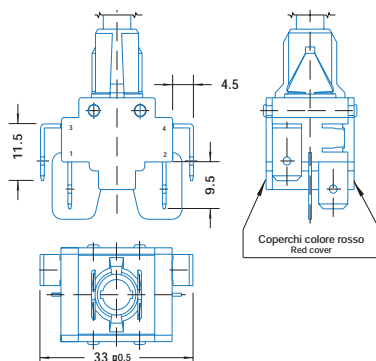
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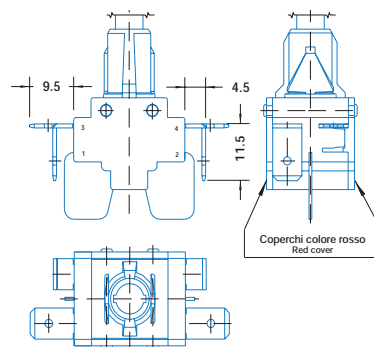
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11



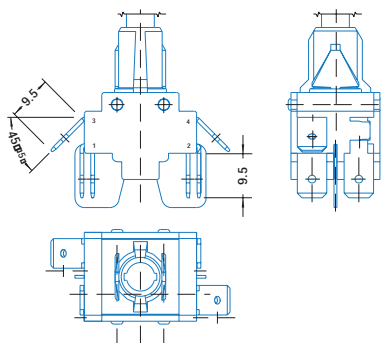
12



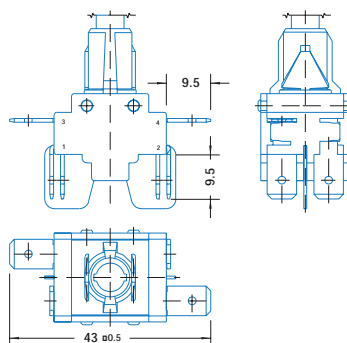
Interruttori CM bipolari DEV-DEV

DEV-DEV double pole CM series switches

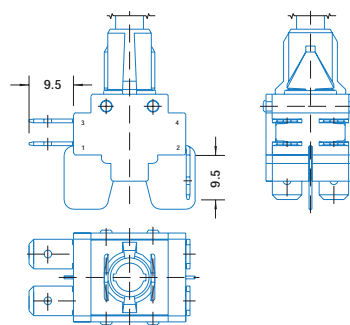
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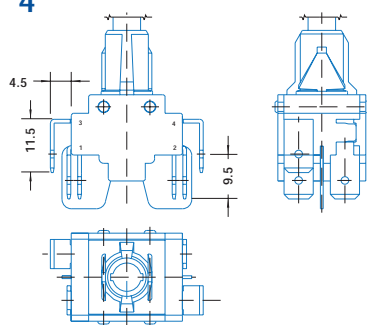
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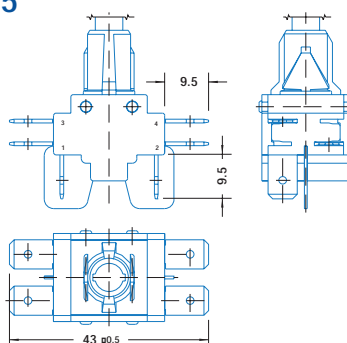
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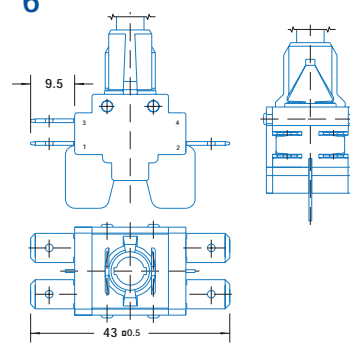
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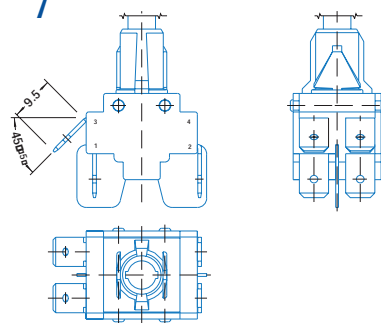
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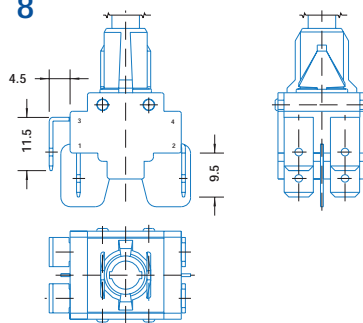
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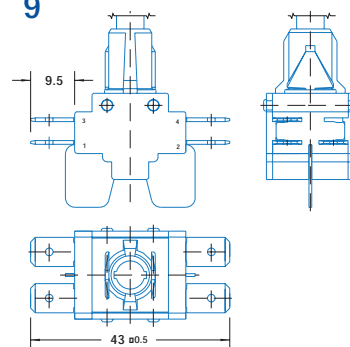
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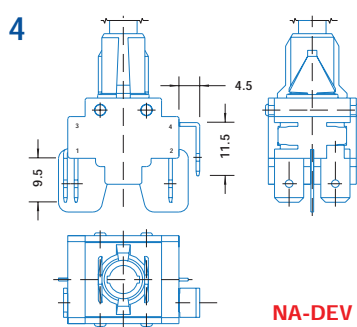
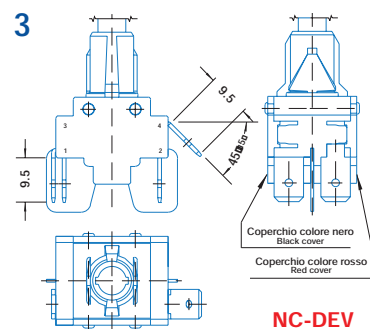
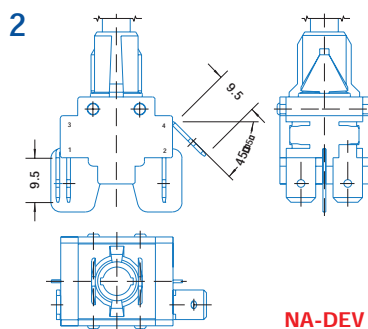
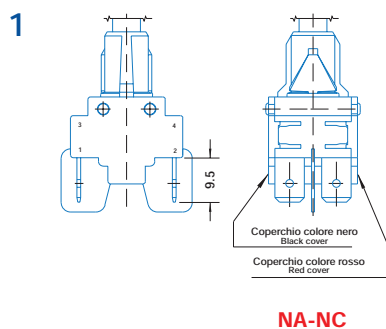
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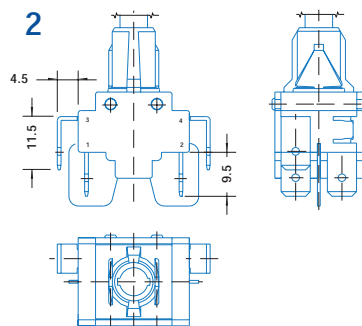
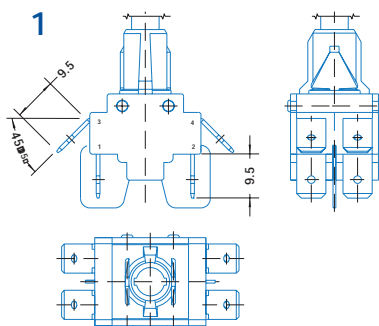
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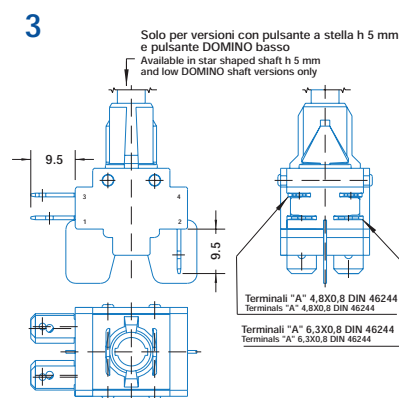
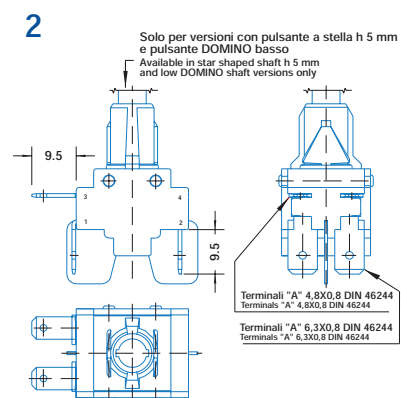
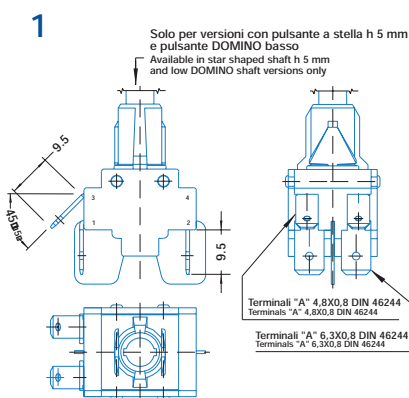
Interruttori CM bipolari NA-NC • NA-DEV • NC-DEV NO-NC • NO-DEV • NC-DEV double pole CM series switches



Interruttori CM bipolari NA-NC/NA-NC NO-NC/NO-NC double pole CM series switches



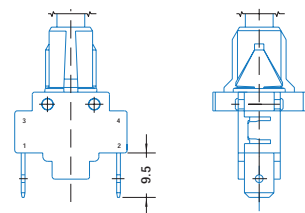
Interruttori CM bipolari NA-NA per lampada spia Pilot lamps NO-NO double pole CM series switches



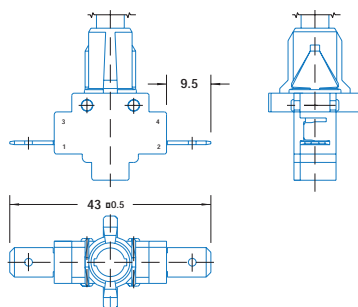
Interruttori CM unipolari NA

NO single pole CM series switches

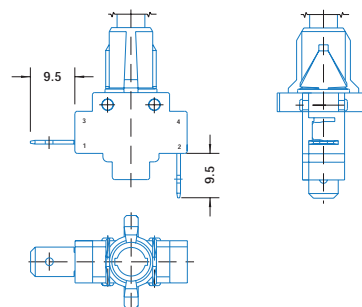
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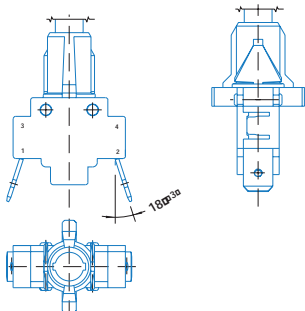
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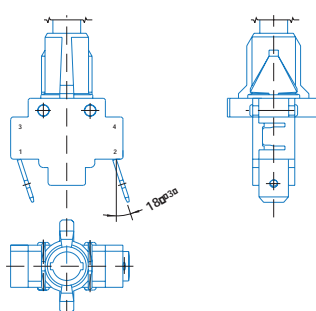
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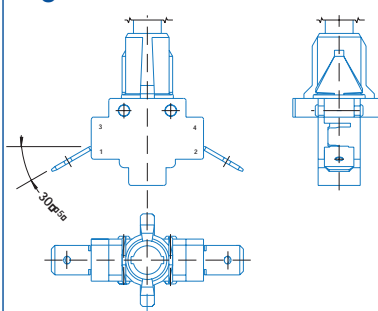
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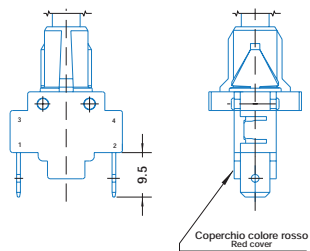
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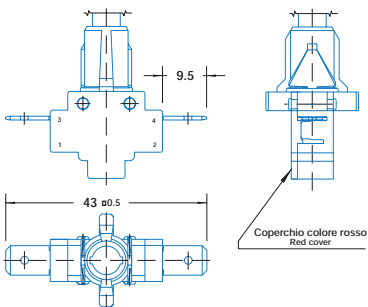
Interruttori CM unipolari NC

NC single pole CM series switches

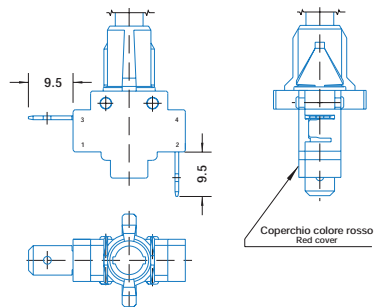
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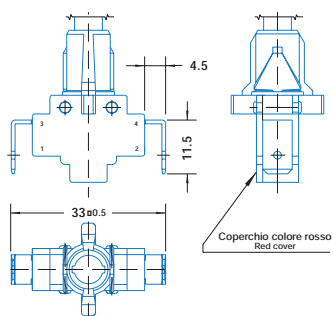
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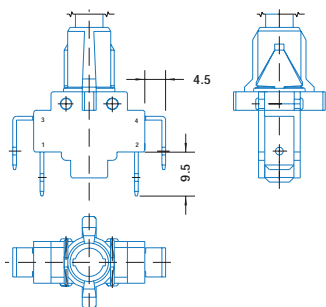
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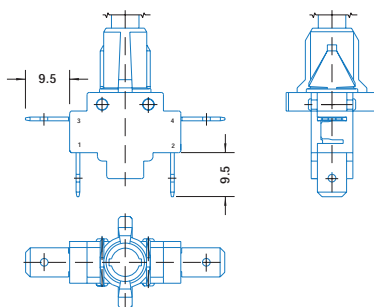
Interruttori CM unipolari NC-NA

NC-NA single pole CM series switches

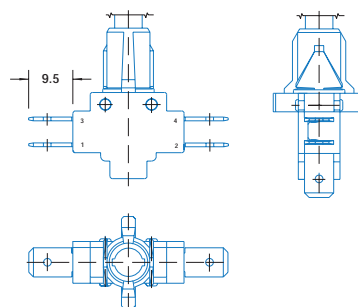
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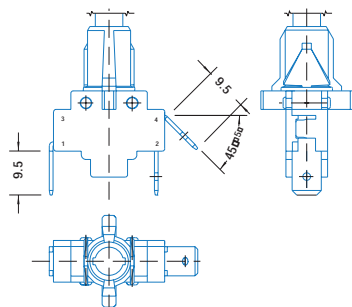
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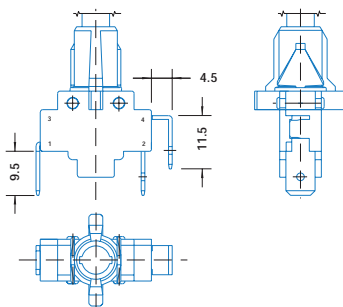
Interruttori CM unipolari DEV

DEV single pole CM series switches

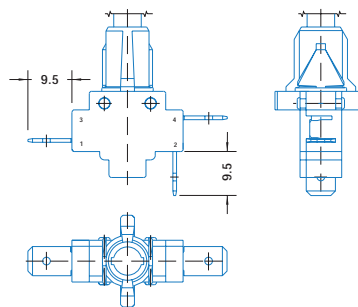
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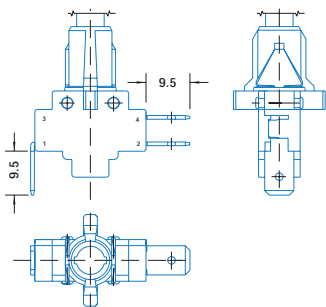
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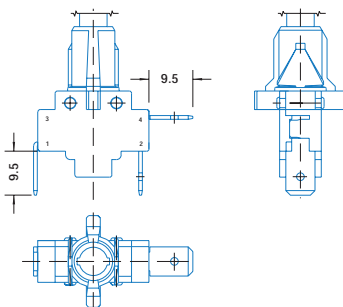
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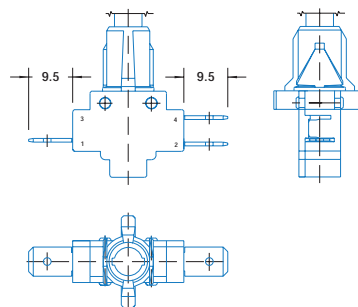
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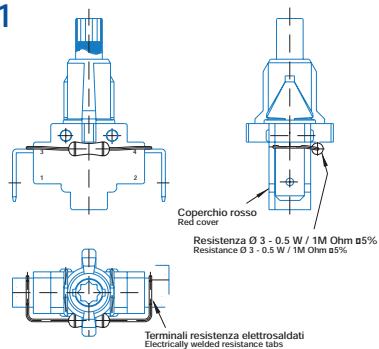
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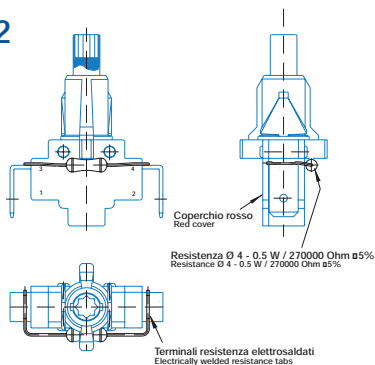
Interruttori CM unipolari NC (con resistenza)

NC single pole CM series switches (with resistance)

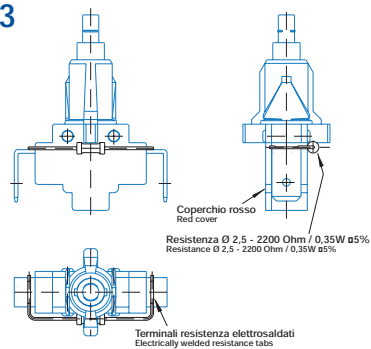
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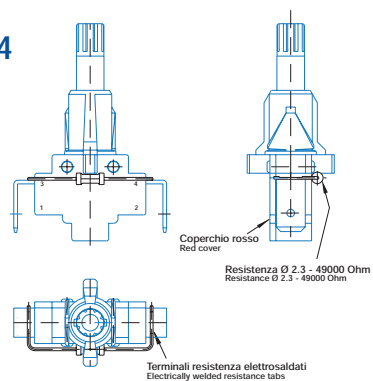
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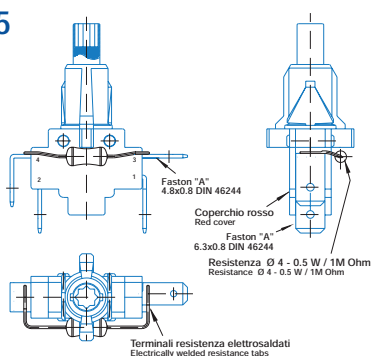
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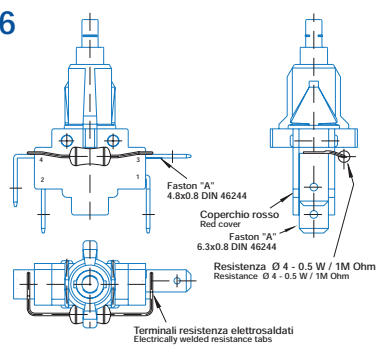
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5

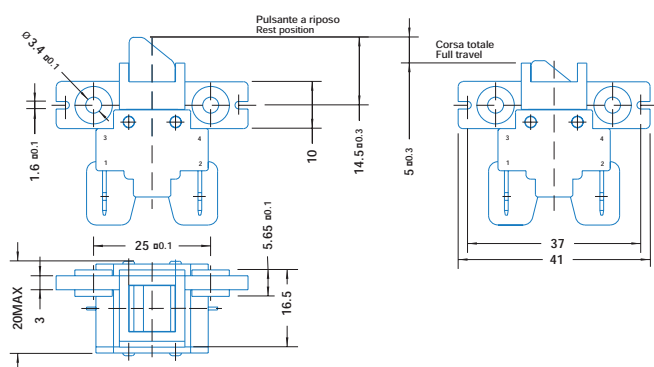


6



Versioni speciali Special versions

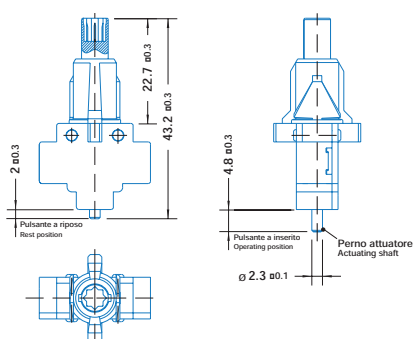
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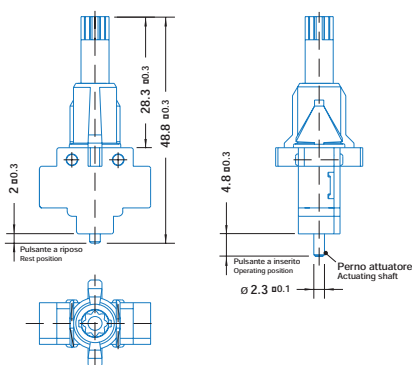
Disponibile soltanto
nella versione a contatto
momentaneo

Available in the momentary
version only

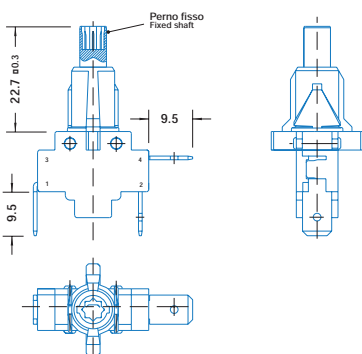
2



3



4



Disponibile anche nelle versioni
n° 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11
(vedere versione standard)

Available also in the n° 3 - 4 - 5 - 6
7 - 8 - 9 - 10 - 11 versions
(see standard version)

Caratteristiche tecniche

Technical features

Tecniche costruttive

- L'interruttore è costituito da una custodia isolante in poliammide conforme alle norme di autoestinguenza.
- I terminali sono realizzati in OT67 e conformi dimensionalmente alle norme DIN 46244.
- I contatti, elettrosaldati, sono in lega Argento-Nichel 90/10.
- Le molle interne sono trattate galvanicamente per evitare qualsiasi inconveniente derivante dall'ossidazione.

Manufacturing features

- The switch is housed in a case with a cover made of Polyamide complying with standards of fire and anti-tracking tests.
- The terminals are made of OT67 and are in compliance with DIN 46244 standards.
- The electrically welded contacts are made of Silver-Nickel 90/10 alloy.
- The inner springs are galvanically plated thus minimising oxidation.

Caratteristiche elettriche

La durata meccanica si riferisce al numero di volte che un interruttore può essere attuato senza il passaggio di un carico elettrico. La durata è calcolata agendo sull'attuatore in modo assiale rispetto dell'interruttore, fino al livello di oltrecorsa, a temperatura ambiente di 25°C.

- Tutte le parti dell'interruttore sono costruite per sopportare un potere di interruzione di:
 - 16(4)A 250Vac 1E4 T150
 - 10(8)A 250Vac 1E4 T150
 - 6(2)A 250Vac 5E4 T150
 - 10A 400Vac 1E4 T150
 - 16A 1/2HP 125/250Vac UL-CSA
- Rigidità dielettrica: 3750Vac
- Protezione allo sporco: IP4X
- Protezione all'umidità: IP40
- PTI: 250Vac
- Glow Wire Test: 750°C no flame
- Classe di isolamento: I
- Numero minimo di interventi elettrici: 10.000
- Fissaggi: Snap in o filetto

Electric features

Mechanic life means the number of times the switch can be actuated without passage of electric input.

It is calculated by acting on the actuator axially against the microswitch until the overtravel is reached at an ambient temperature of 25°C.

- All parts of the switch are manufactured to withstand a load of:
 - 16(4)A 250Vac 1E4 T150
 - 10(8)A 250Vac 1E4 T150
 - 6(2)A 250Vac 5E4 T150
 - 10A 400Vac 1E4 T150
 - 16A 1/2HP 125/250Vac UL-CSA
- Dielectric strength: 375V
- Degree of protection against dust: IP4X
- Degree of protection against harmful ingress of water: IP40
- PTI: 250Vac
- Glow Wire Test: 750°C no flame
- Degree of protection against electric shock: Class I
- Min. numbers of electric actions: 10,000
- Fixing: Snap in or nut fixing

