



COMELETRIC

Specialized rotary and control switches

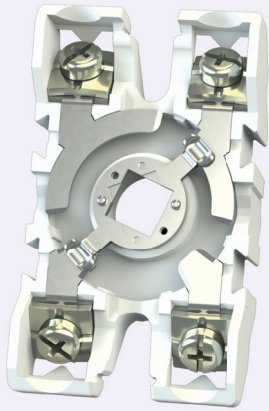
Series RB - DRB





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R8 SPACE SAVING BENEFITS



Double bridge Rotor contact Knife type.
Fixed contacts with self-cleaning action.
Contatto mobile a doppio ponte contatti
fissi a coltello con azione strisciante
autopulente.

- The Switches/Discrepancy switches "R8-DR8" are ideal solution for many industrial applications and are mainly used in Auxiliary Circuits for connection or disconnection of Relays, measuring instruments, etc...
They have particular characteristics that distinguish them by common switches present on the market. Listed below are some of the many advantages they provide.

- Geometric insulation body has been especially designed to save space allowing very closed mounting of switches (side by side).

- Contact system with self-cleaning action on both sides of the contacts.
This makes the control switches extremely reliable in highly aggressive environments with high percentages of saline dust and corrosive agents.

- Last generation polymer with high mechanical strength and excellent electrical characteristics.
Self-extinguishing UL94V0.

- High resistance to shock and vibration, due to the clip and blade contact design.

- Thanks to its layout and special materials, the notching mechanism is designed to guarantee both reliability and a long-lasting mechanical life.

R8 SPACE SAVING BENEFITS

- I Commutatori / Manipolatori serie "R8-DR8" sono la soluzione ideale per innumerevoli applicazioni industriali e vengono prevalentemente utilizzati in Circuiti Ausiliari per l'inserzione e la disinserzione di Relays, strumenti di misura, ecc...
Essi presentano particolari caratteristiche che li distinguono dai comuni commutatori presenti sul mercato.
Elenchiamo qui di seguito quali sono i vantaggi che offrono.

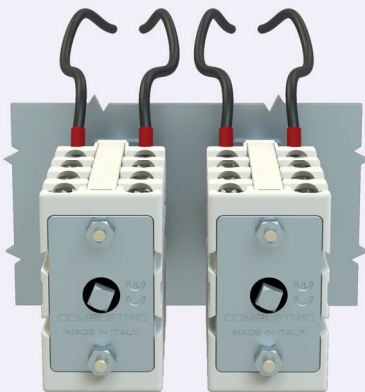
- La geometria del corpo isolante del commutatore è stata specificatamente studiata per permettere l'alloggiamento dei commutatori sul pannello a distanza molto ravvicinata.

- Sistema di contatto strisciante con effetto autopulente su entrambe le superfici; rende i commutatori particolarmente idonei ad essere utilizzati in ambienti altamente aggressivi, con presenza di polveri, alto tasso salino, ecc.

- Tecnopolimero di ultima generazione con ottima resistenza meccanica, elevate caratteristiche elettriche ed autoestinguento UL94V0.

- Elevata resistenza a Shock e Vibrazioni. Poiché il contatto fisso è posizionato tra le due lame, il contatto viene premuto su una lama nel caso la forza sull'altra diminuisca.

- Gruppo scatto progettato per elevati cicli di commutazione. Grazie al layout ed ai materiali impiegati, la lunga durata ed affidabilità sono garantiti negli anni.



Geometric body insulation allows closed mounting of switches (side by side).
La geometria dell'isolante permette il montaggio ravvicinato dei commutatori (side by side).

- Up to 12 packets of contacts can be assembled in single shaft switch.
- Fino a 12 pacchi di contatti possono essere assemblati in commutatori a singolo albero.

- Terminals with IP20 protection, in accordance with the international standard IEC 60529/CEI EN 60529.
- Morsetti con protezione IP20, in riferimento alla norma IEC 60529/CEI EN 60529.

- Terminals with screws at 40° tilt angle, facilitating the access to the terminals from the rear of the switch.
- Morsetti con viti inclinate a 40°. Agevola l'accesso ai terminali dal retro del commutatore.

- Low contact resistance (5mΩ) makes R8 Control Switches suitable also for low currents and low voltage electronic circuits.
- Bassa resistenza di contatto (5mΩ), rende il commutatore R8 adatto all'impiego anche in circuiti per l'elettronica con bassi valori di corrente e voltaggio.

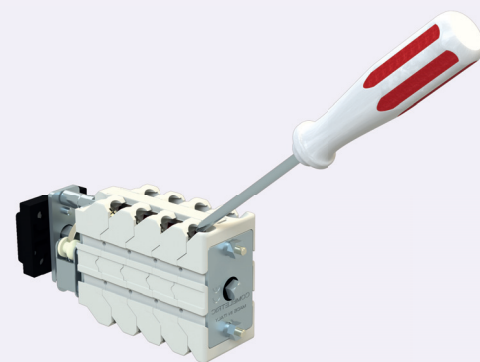
- Shaft and main structure entirely made of zinc plated steel and specifically designed for the usage of the switch in tropical environments.
- Albero e struttura portante interamente in acciaio zincato elettroliticamente, ideale per l'impiego del commutatore in ambienti tropicali.

- Terminals supplied opened for fast and easy installation.
- Terminali forniti aperti per velocizzare le operazioni di cablaggio.

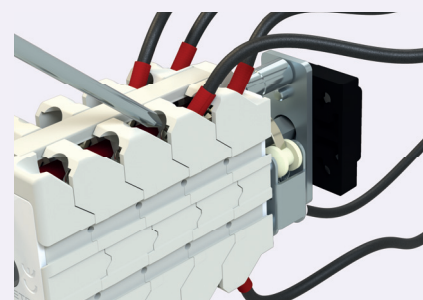
- Numbered plastic cover customizable and replaceable in case of failure without removing the wires to the switch.
- Tegolino con numerazione morsetti personalizzabile e sostituibile in caso di errore senza necessità di scablare il commutatore.

- 2/3 positions switches with the possibility of an internal common (avoiding external bridges).
- Commutatori a 2/3 posizioni con possibilità di comune interno (evita di eseguire ponti esterni).

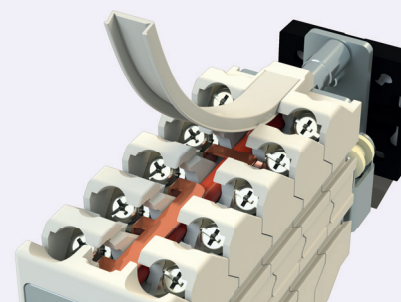
- External jumpers of different shapes and sizes are available, they are integrated in the isolating discs, so no external connections in sight.
- Disponibili ponticelli esterni (JUMPERS) di vario tipo e misura, essi vengono posizionati integrandoli nel corpo isolante non lasciando esposto nessun collegamento esterno, su richiesta possono essere pre-montati sul commutatore.



Terminals with screws at 40° tilt angle, facilitating the access to the terminals from the rear of the switch.
 Morsetti con viti inclinate a 40°. Agevola l'accesso ai terminali dal retro del commutatore.



IP20 Finger proof Terminals. Protezione contro i contatti accidentali IP20.

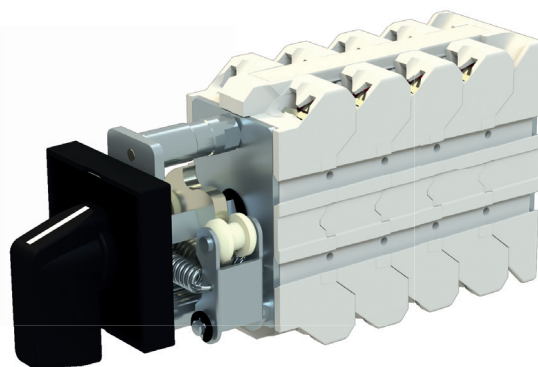


No external bridges in sight, thanks to the jumpers internal to the insulating body. Ponticelli (JUMPERS) integrati nel corpo isolante non lasciando esposto nessun collegamento esterno.

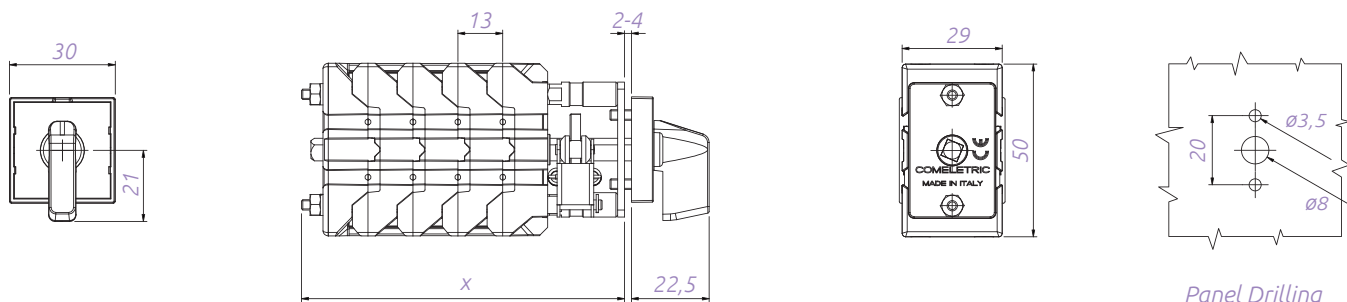
R801 Model:

Can have from 2 to 8 positions, 45°-90°, up to max 12 packets of contacts. Captive screws. Suitable for wiring with forks/pins with cable lug size 2,5 mm. It is supplied with frontplate 30x30mm.

Realizza da 2 a 8 posizioni con spostamenti di 45° o 90°, fino ad un massimo di 12 pacchi di contatti. Morsetti con cavaliere autosollevante e vite anticaduta, idonei ad accogliere puntalini/forcelle per cavo diametro 2,5 mm. Fornito con mostrina frontale 30x30mm.



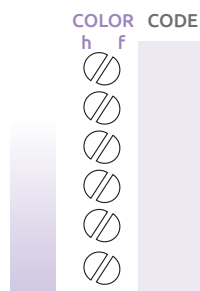
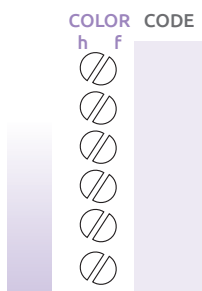
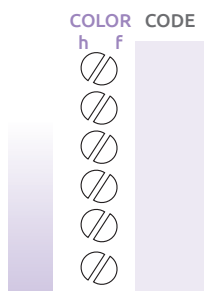
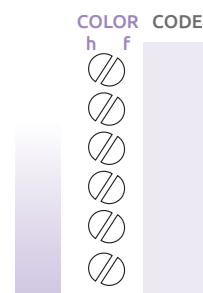
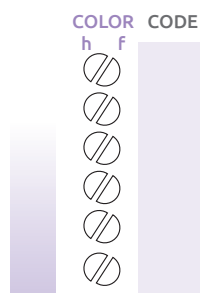
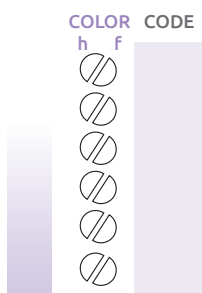
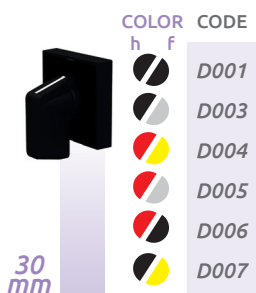
Dimensions



Panel Drilling

N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	55	68	81	94	107	120	133	146	159	172	185	198

R801 Frontplates R801 Mostrine



h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

R802 Model:

Key Operated switch, from 2 to 8 positions.

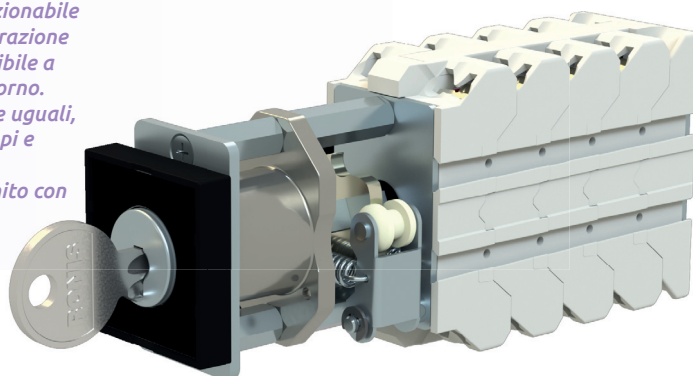
The RONIS key can be removed in different positions as per specific needs.

It can be supplied with fixed positions or with spring return, the keys can be supplied all similar, all different or different in groups and Master Key. Each switch supplied with two Keys.

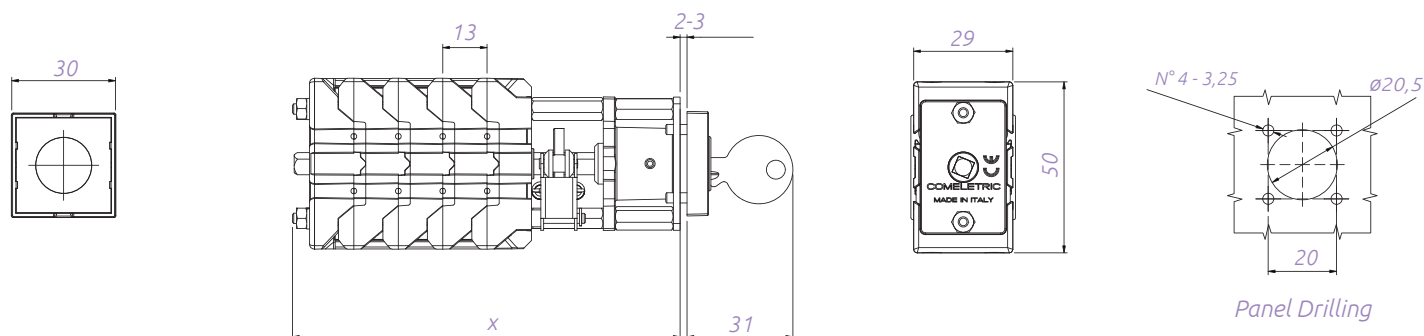
Realizza da 2 a 8 posizioni, azionabile tramite chiave RONIS con estrazione in una o più posizioni. Disponibile a scatto fisso o con molla di ritorno.

Le chiavi possono essere tutte uguali, tutte diverse o diverse a gruppi e Master Key.

Ogni commutatore viene fornito con 2 Chiavi.

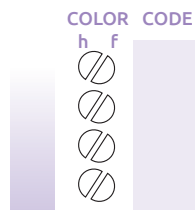
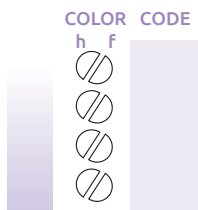
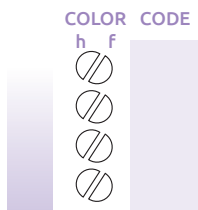
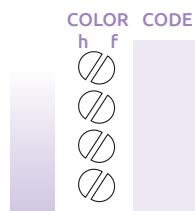
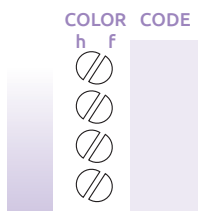
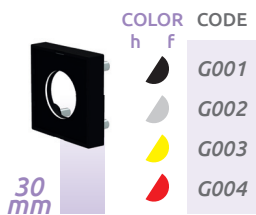


Dimensions



N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	75	88	101	114	127	140	153	166	179	192	205	218

R802 Frontplates R802 Mostrine

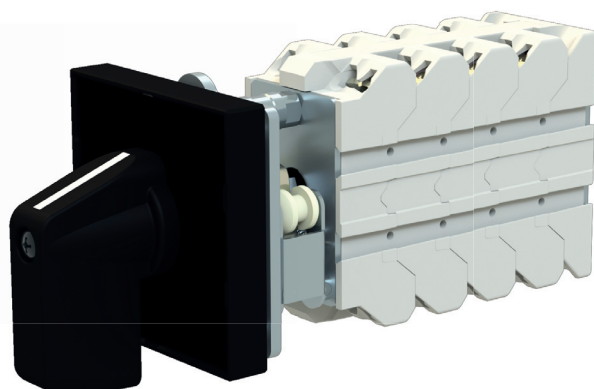


h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

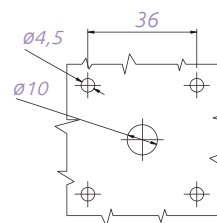
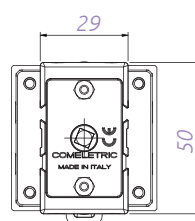
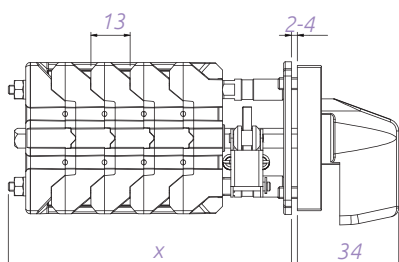
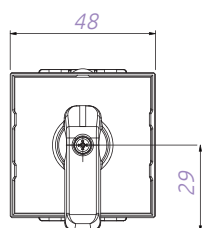
R804 Model:

Can have from 2 to 8 positions, 45°-90°, up to max 12 packets of contacts.
Captive screws. Suitable for wiring with forks/pins with cable lug size 2,5 mm.
It is supplied with frontplate 48x48mm.

Realizza da 2 a 8 posizioni con spostamenti di 45° o 90°, fino ad un massimo di 12 pacchi di contatti.
Morsetti con cavaliere autosollevante e vite anticaduta, idonei ad accogliere puntalini/forcelle per cavo diametro 2,5 mm.
Fornito con mostrina frontale 48x48mm.



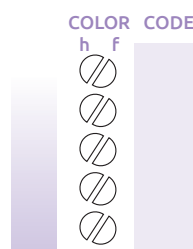
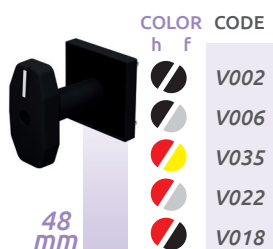
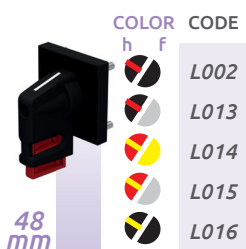
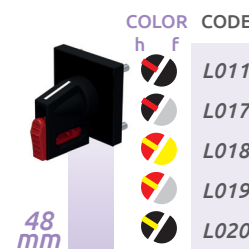
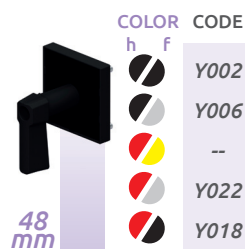
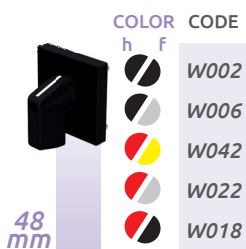
Dimensions



Panel Drilling

N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	55	68	81	94	107	120	133	146	159	172	185	198

R804 Frontplates R804 Mostrine



h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

R805 Model:

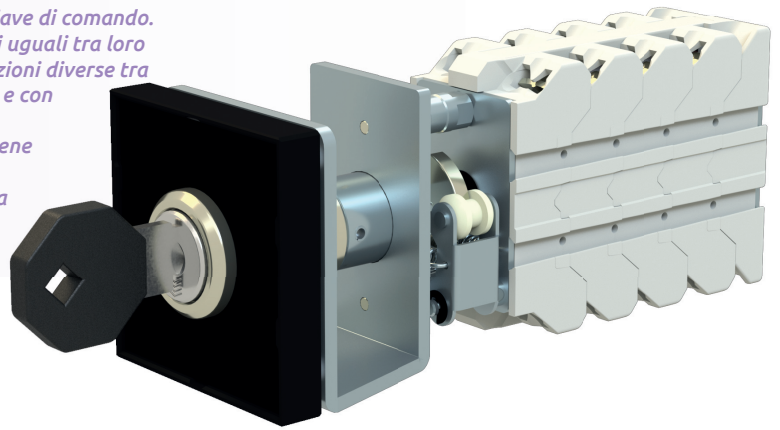
Key Operated rotary switch.

Available with keys equal to each other or up to 200 different combinations, different in groups and Master Key.

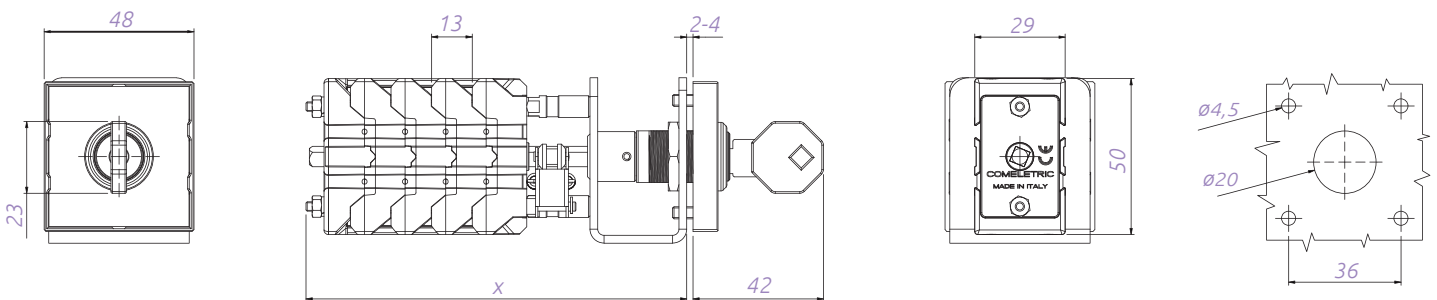
Each switch is supplied with two Keys. Model with 48x48mm escutcheon plate.

Commutatore con chiave di comando. Disponibile con chiavi uguali tra loro o fino a 200 combinazioni diverse tra loro, diverse a gruppi e con Master Key.

Ogni commutatore viene fornito con 2 Chiavi. Versione con mostrina frontale 48x48mm.



Dimensions



Panel Drilling


N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	83	96	109	122	135	148	161	174	187	200	213	226

R805 Frontplates R805 Mostrine

COLOR CODE






h f

48 mm

-  K001
-  K003
-  K004
-  K005
-  K006






COLOR CODE

h f

- 
- 
- 
- 
- 






COLOR CODE

h f

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COLOR CODE

h f

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COLOR CODE

h f

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COLOR CODE

h f

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COLOR CODE

h f

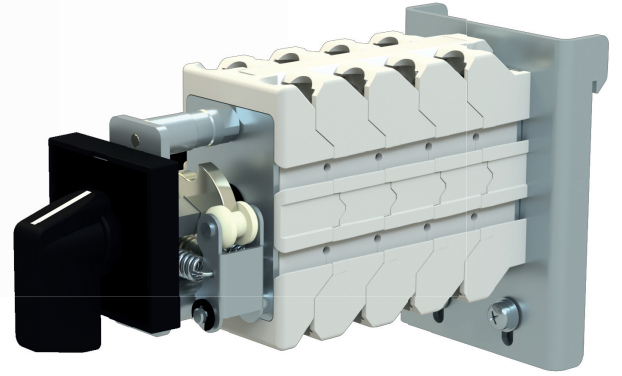
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h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

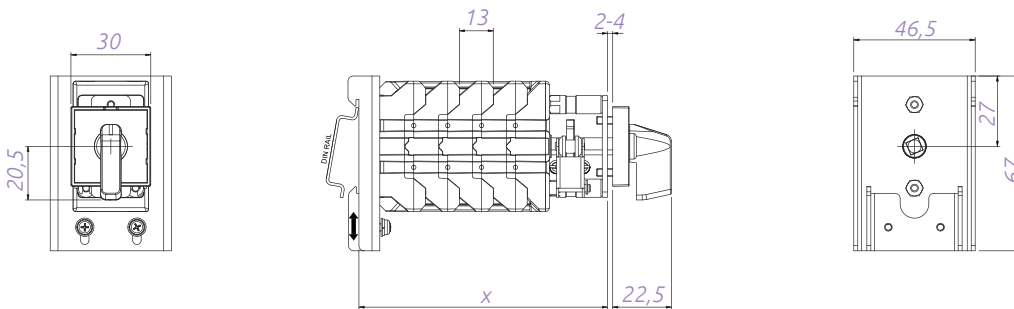
R812 DIN RAIL Model:

Switch suitable for fitting on DIN-Rail.
Reversed mounting of the contact body to enable the access to screws from the front of the switch.

Commutatore idoneo al montaggio su guida DIN.
Montaggio del gruppo contatti montato ribaltato per permettere l'accesso alle viti dal fronte del commutatore.



Dimensions



N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	57	70	83	96	109	122	135	148	161	174	187	200

R812 Frontplates R812 Mostrine

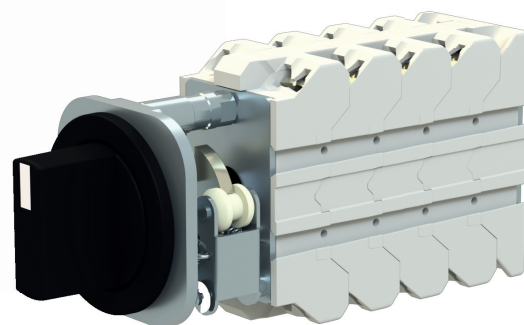
<p>30 mm</p>	COLOR	CODE	COLOR	CODE	COLOR	CODE	COLOR	CODE
	h	f	h	f	h	f	h	f
			D001					
			D003					
			D004					
			D005					
			D006					
		D007						

h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

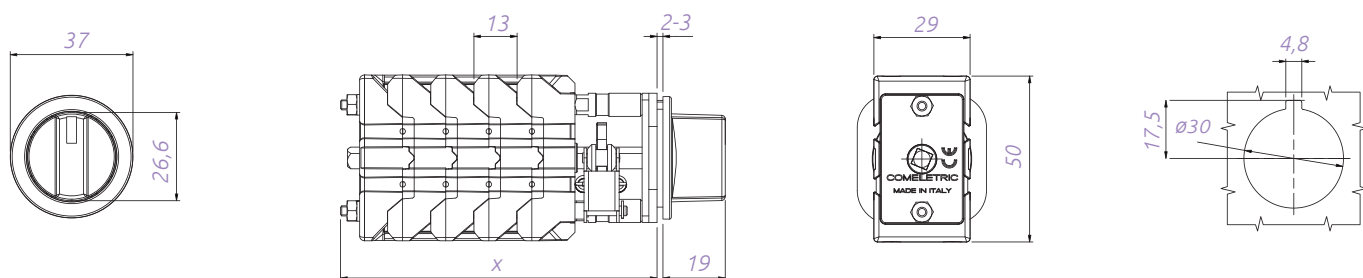
R810 LOW PROFILE Model:

Flat ring switch. This special design reduces the footprint of the front of the switch, with a single hole fitting diam. 30,5 mm. they are particularly used on control desk and on serigraph printed panels.

Il design filo ghiera provvede al minimo ingombro in sporgenza della manopola, fissaggio a foro unico diam. 30,5mm, particolarmente adatto per comandi cockpit e pannelli serigrafati.



Dimensions



Panel Drilling

N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	57	70	83	96	109	122	135	148	161	174	187	200

R810 Frontplates R810 Mostrine

COLOR CODE






h f

30 mm

-  J001
-  J002
-  J003
-  J004
-  J005






COLOR CODE

h f

- 
- 
- 
- 
- 






COLOR CODE

h f

- 
- 
- 
- 
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COLOR CODE

h f

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COLOR CODE

h f

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COLOR CODE

h f

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COLOR CODE

h f

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h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

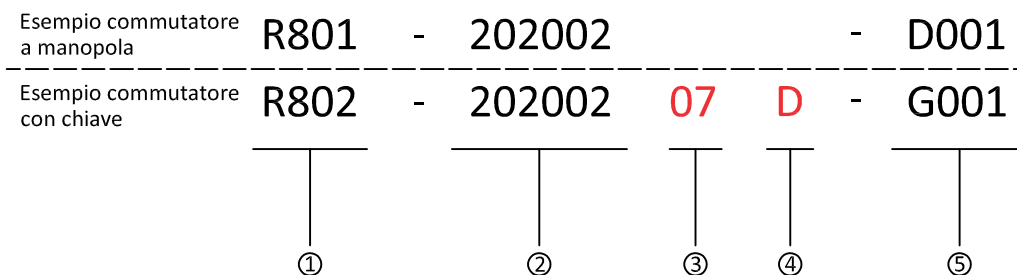
Metodo di ordinazione commutatori R8

In questo Catalogo si possono trovare alcuni schemi e le istruzioni per comporre autonomamente i codici d'ordinazione dei commutatori Serie R8 standard.

Per schemi Speciali o schemi non presenti in questo catalogo utilizzare il form. a pag. 32 .

Gli schemi del presente catalogo ed il loro utilizzo nei codici sono applicabili esclusivamente alle serie di commutatori R8 e non per le altre Serie.

Codice prodotto



① Modello del Commutatore.

Come n° di Modello si intende il montaggio e la forma costruttiva univoca di ogni commutatore

questo riferimento identifica la specifica costruzione meccanica del commutatore .

Questo n° di Modello viene indicato nel catalogo insieme al relativo disegno di ingombro e della foratura del pannello.

② Schema elettrico.

Questo numero rappresenta l'indicazione dello schema del commutatore richiesto.

Esso comprende lo schema elettrico ed il movimento della manopola , in riferimento agli schemi di seguito rappresentati.

③ Programma Bloccaggio/Estrazione chiave o altro.

Questo numero viene utilizzato solamente nei commutatori con chiave di comando , serratura di blocco, commutatore lucchettabile e commutatori con manopola estraibile.

Esso rappresenta la posizione in cui il commutatore può essere bloccato.

Il bloccaggio dei commutatori con chiave di comando o serratura di blocco avviene mediante l'estrazione della chiave dallo stesso.

Nei modelli con manopola estraibile la posizione il bloccaggio è la medesima di quelli a chiave , nei modelli lucchettabili il riferimento è invece la posizione dove viene data la possibilità di inserire il lucchetto.

La tabella di riferimento per il N° di programma di bloccaggio è presente a pag. 31 del presente catalogo e deve essere conforme allo spostamento della manopola previsto nello schema di riferimento del commutatore.

④ Chiave uguali tra di loro o chiavi differenti tra di loro.

Questo numero viene utilizzato solamente nei commutatori con chiave di comando , serratura di blocco.

Esso rappresenta se le chiavi dei commutatori devono essere uguali tra loro o Differenti tra loro.

La lettera "D" è l'indicazione di chiavi diverse tra di loro , quindi ogni commutatore ordinato avrà una chiave unica , quindi non è possibile manovrare altri commutatori con la medesima chiave.

Se non indicata i commutatori vengono forniti tutti con medesima chiave .

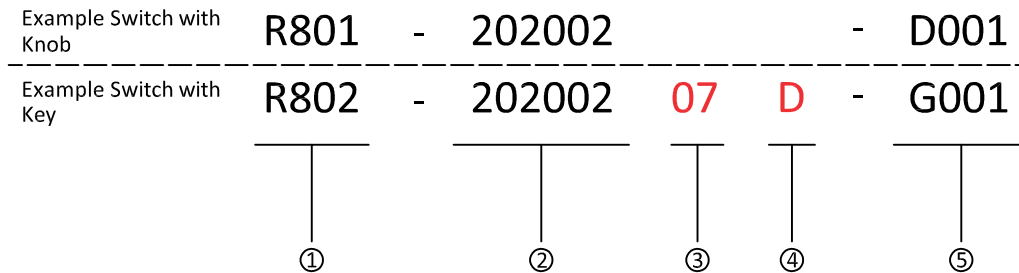
⑤ Tipo dimensione e colore Finitura (parte frontale)

Questo numero indica il tipo la dimensione ed il colore delle manopole e Finiture frontali del commutatore

Method for coding of R8 switches

In the present catalogue you will find examples of diagrams and the instruction enabling you to the creation by yourself of the ordering codes of R8 switches (standard).
For all the other special diagrams or any scheme which is not present in this catalogue, please use the form on page 32.
The diagrams represented in this catalogue and their use in the codes are strictly related to R8 switches and not to all the others.

Switch code



① Switch model

As switch model it is meant the kind of fitting and the mechanical structure of each specific switch.

This reference is mentioned in the catalogue along with the dimensional drawing and the cutout of the panel.

② Electrical diagram

This reference is referred to the electrical diagram of the switch.

It includes the diagram and the movement of the knob, with reference to diagrams present in the following pages of the catalogue.

③ Locking/extraction program of keys or any other locking facility.

This reference is not used in those switches key operated, with Key lock, padlockable or with removable knob.

It gives the positions where the switch must be blocked.

The locking of any type of key switch is done by removing the key in the required position, the same for the switches with removable handle.

On the contrary, for switches with padlockable devices, this code reference will state where the padlockable could be inserted and blocking the rotation of the knob.

The table with locking references is on page 31 of this catalogue and it must be conform to the switching positions foreseen in the electrical diagram referred to the switch.

④ Alike or different key references.

This reference is present only in codes of switches with a key device.

It states if the switches must be equipped with keys with same references or all different ones.

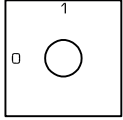
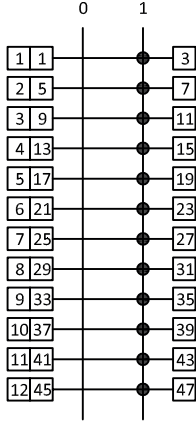
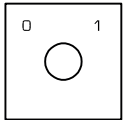
Letter "D" at the end of the code means all different key references, so each switch will be provided with a unique key, the key of one switch could not be used for operating any other switch of the same supply.

If not clearly mentioned in the order, the switches will be provided keys all alike.

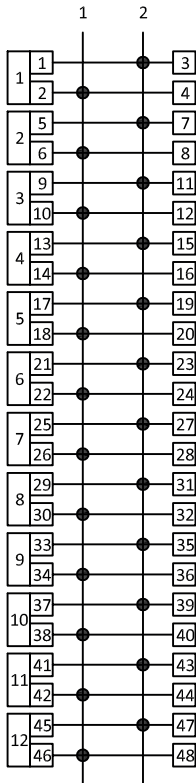
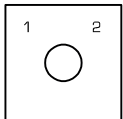
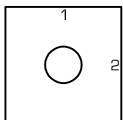
⑤ Dimension and front colour

This is referred to the dimension of the frontplate and its and knob's colour.

Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
On/Off Switches				
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201019 202019 203019 204019 205019 206019 207019 208019 209019 210019 211019 212019	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201020 202020 203020 204020 205020 206020 207020 208020 209020 210020 211020 212020	

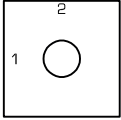
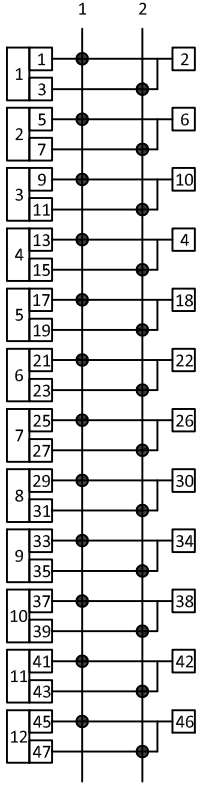
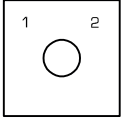
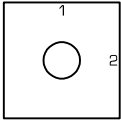
Double Throw Switch Without "0" position.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201001 202001 203001 204001 205001 206001 207001 208001 209001 210001 211001 212001	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201002 202002 203002 204002 205002 206002 207002 208002 209002 210002 211002 212002	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201003 202003 203003 204003 205003 206003 207003 208003 209003 210003 211003 212003	

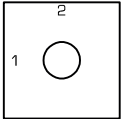
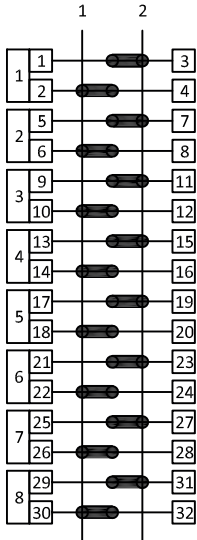
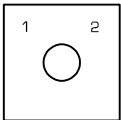
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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2 Positions switch with 1 input & 2 Output in each deck

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201007 202007 203007 204007 205007 206007 207007 208007 209007 210007 211007 212007	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201008 202008 203008 204008 205008 206008 207008 208008 209008 210008 211008 212008	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	201009 202009 203009 204009 205009 206009 207009 208009 209009 210009 211009 212009	

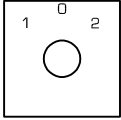
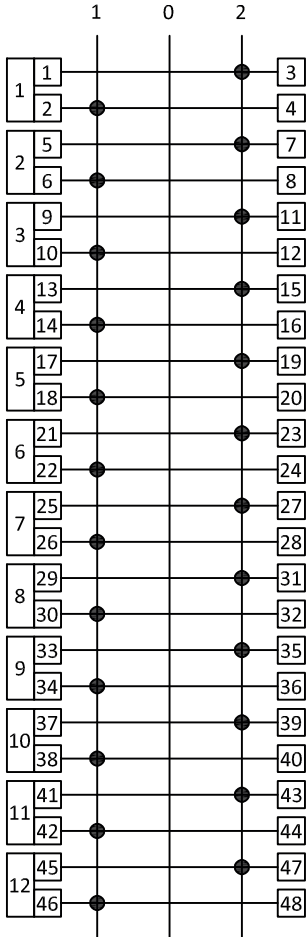
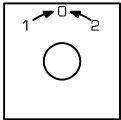
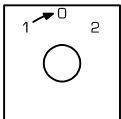
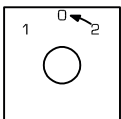
2 Positions switch with Make before Break Contacts

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	201055 202055 203055 204055 205055 206055 207055 208055	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	201056 202056 203056 204056 205056 206056 207056 208056	

Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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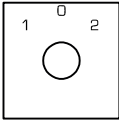
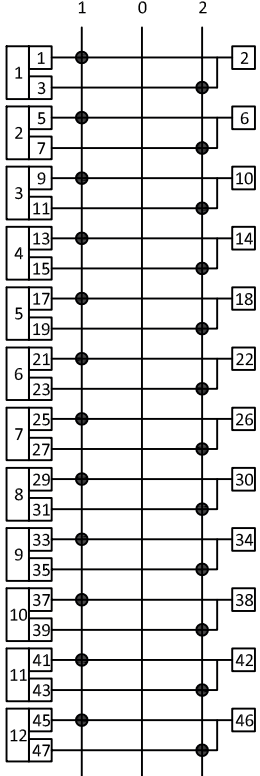
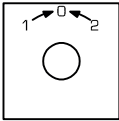
3 pos. switch with "0" Position with electrically isolated contacts

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	301001 302001 303001 304001 305001 306001 307001 308001 309001 310001 311001 312001	
With Spring return to "0" position from pos."1" & pos."2". 1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	M301001 M302001 M303001 M304001 M305001 M306001 M307001 M308001	
With Spring return to "0" position from pos."1". 1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	301012 302012 303012 304012 305012 306012 307012 308012	
With Spring return to "0" position from pos."2". 1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	301020 302020 303020 304020 305020 306020 307020 308020	

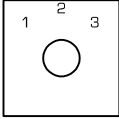
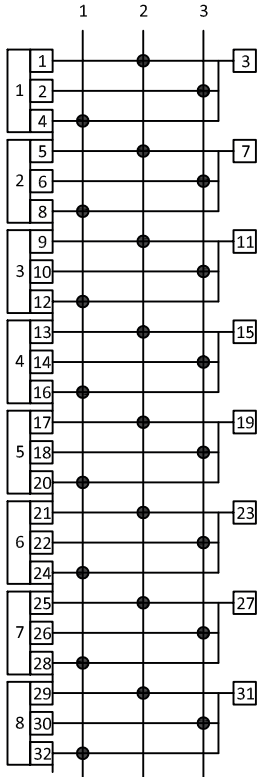
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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3 pos. switch with "0" Position with 1 input and 2 output in each deck.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	301003 302003 303003 304003 305003 306003 307003 308003 309003 310003 311003 312003	
With Spring return to "0" position from pos. "1" & pos. "2". 1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	M301003 M302003 M303003 M304003 M305003 M306003 M307003 M308003	

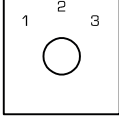
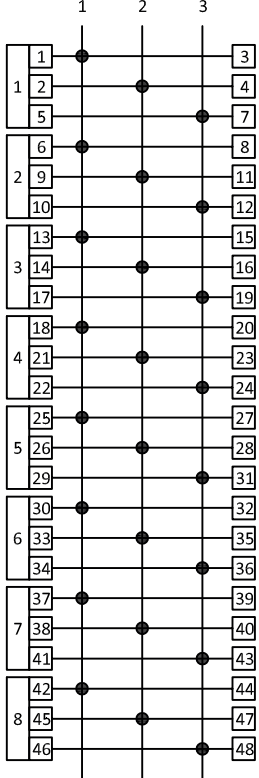
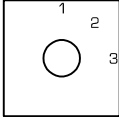
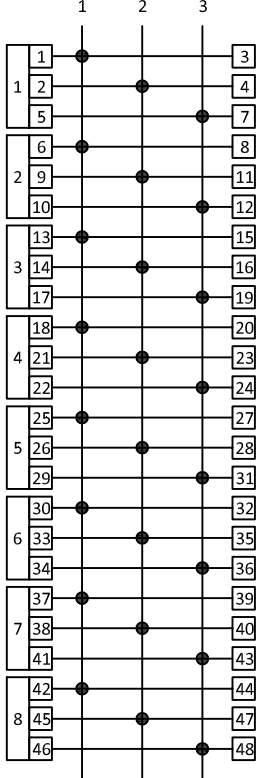
3 pos. switch without "0" Position with 1 input and 3 output in each deck.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	301004 302004 303004 304004 305004 306004 307004 308004 309004 310004 311004 312004	
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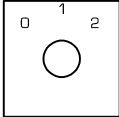
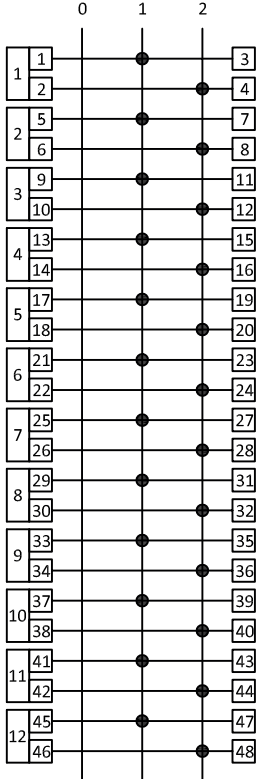
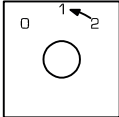
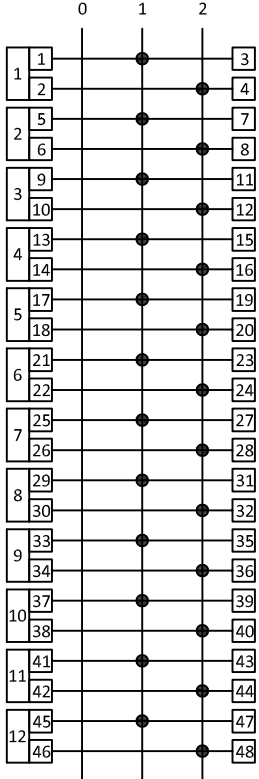
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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3 pos. switch Without "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		2 3 5 6 8 9 11 12	302078 303078 305078 306078 308078 309078 311078 312078	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		2 3 5 6 8 9 11 12	302134 303134 305134 306134 308134 309134 311134 312134	

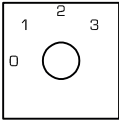
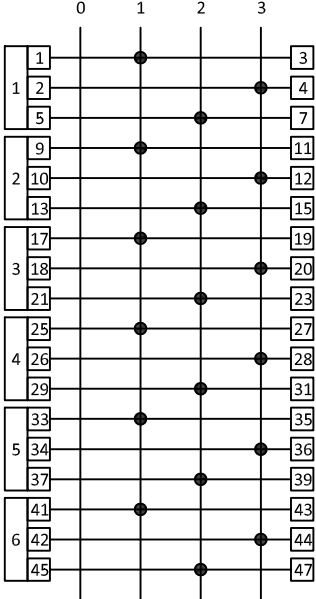
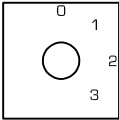
3 pos. switch with "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole 9 pole 10 pole 11 pole 12 pole		1 2 3 4 5 6 7 8 9 10 11 12	301016 302016 303016 304016 305016 306016 307016 308016 309016 310016 311016 312016	
With Spring return to "0" position from pos. "2". 1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	301048 302048 303048 304048 305048 306048 307048 308048	

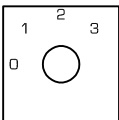
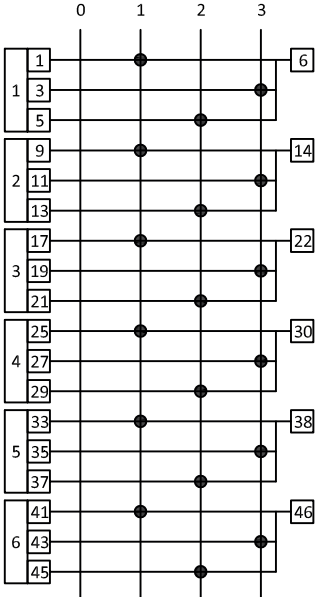
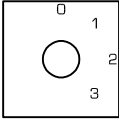
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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4 pos. switch With "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402008 404008 406008 408008 410008 412008	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402087 404087 406087 408087 410087 412087	

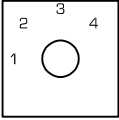
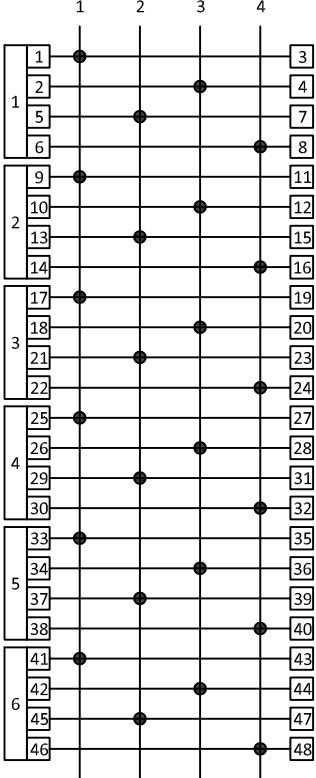
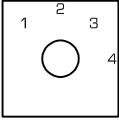
4 pos. switch with "0" Position, with 1 Input and 3 output per Pole.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402011 404011 406011 408011 410011 412011	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402088 404088 406088 408088 410088 412088	

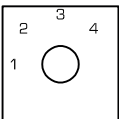
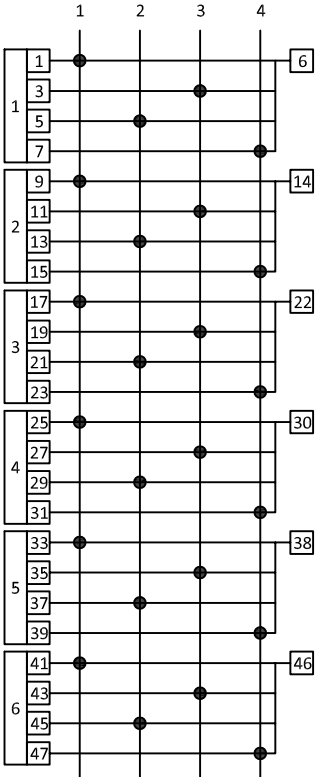
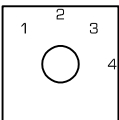
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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4 pos. switch Without "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402003 404003 406003 408003 410003 412003	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402017 404017 406017 408017 410017 412017	

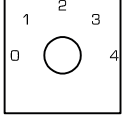
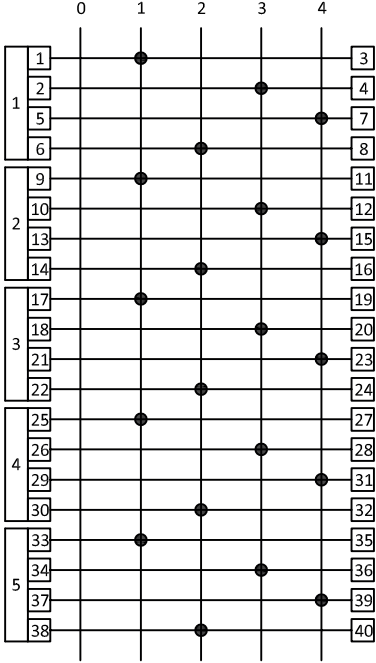
4 pos. switch without "0" Position, with 1 Input and 4 output per Pole.

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402007 404007 406007 408007 410007 412007	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole		2 4 6 8 10 12	402089 404089 406089 408089 410089 412089	

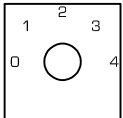
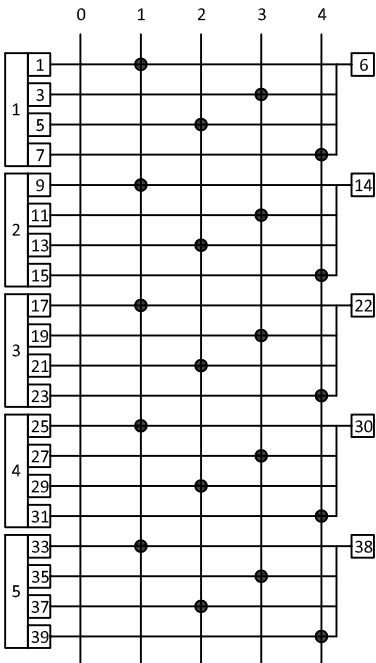
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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5 pos. switch With "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole 5 pole		2 4 6 8 10	502020 504020 506020 508020 510020	
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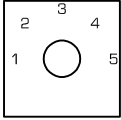
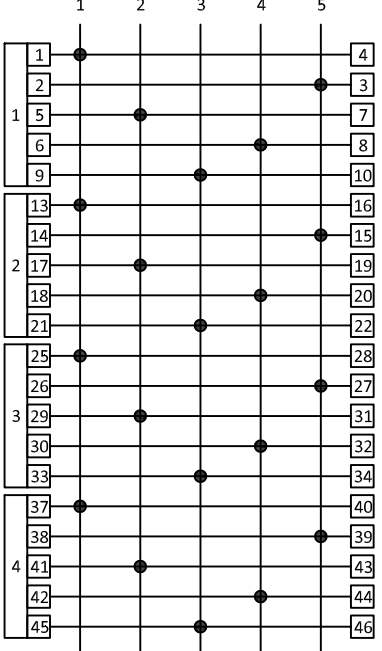
5 pos. switch with "0" Position, with 1 Input and 4 output per Pole.

1 pole 2 pole 3 pole 4 pole 5 pole		2 4 6 8 10	502010 504010 506010 508010 510010	
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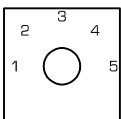
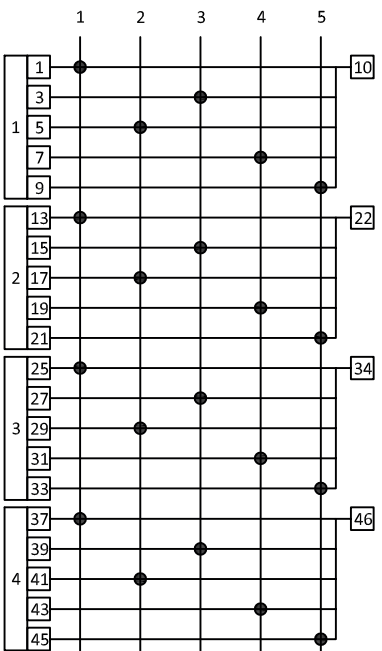
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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5 pos. switch Without "0" Position, with electrically isolated contacts.

<p>1 pole 2 pole 3 pole 4 pole</p>		<p>3 6 9 12</p>	<p>503018 506018 509018 512018</p>	
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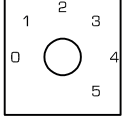
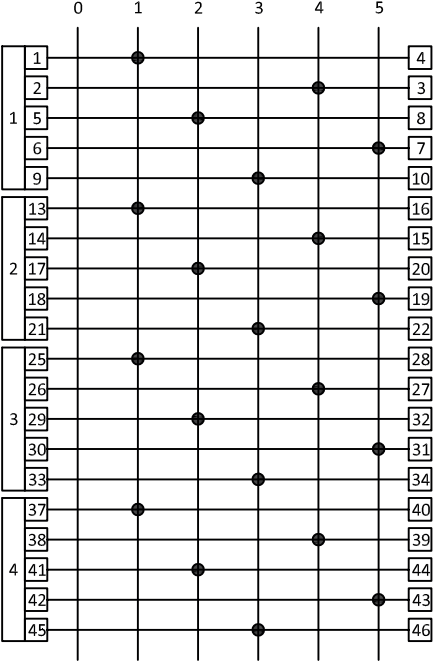
5 pos. switch without "0" Position, with 1 Input and 5 output per Pole.

<p>1 pole 2 pole 3 pole 4 pole</p>		<p>3 6 9 12</p>	<p>503013 506013 509013 512013</p>	
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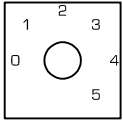
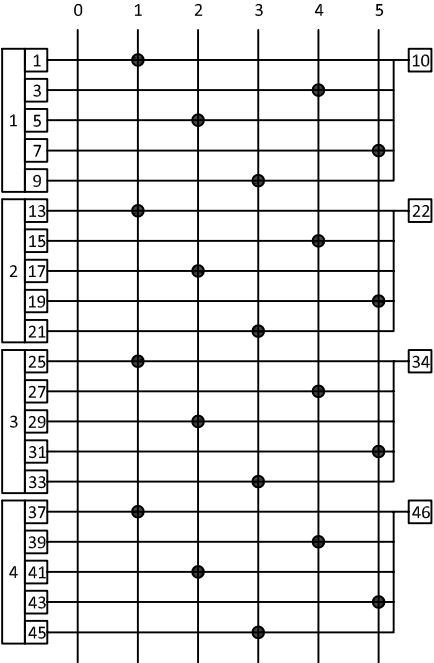
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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6 pos. switch With "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole		3 6 9 12	603009 606009 609009 612009	
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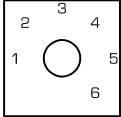
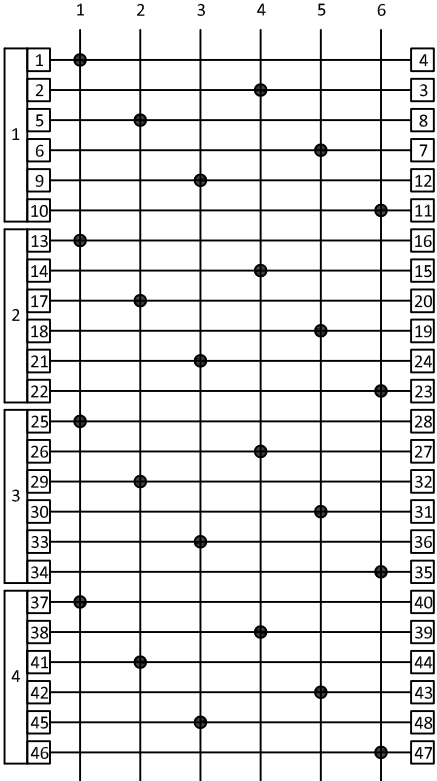
6 pos. switch with "0" Position, with 1 Input and 5 output per Pole.

1 pole 2 pole 3 pole 4 pole		3 6 9 12	603003 606003 609003 612003	
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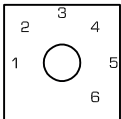
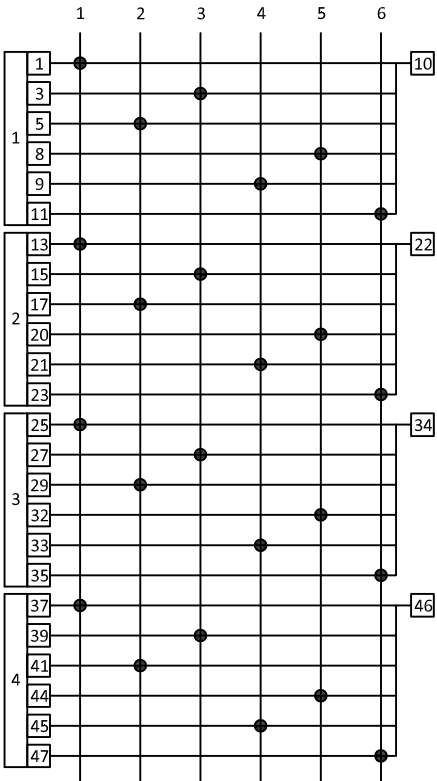
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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6 pos. switch Without "0" Position, with electrically isolated contacts.

<p>1 pole 2 pole 3 pole 4 pole</p>		<p>3 6 9 12</p>	<p>603008 606008 609008 612008</p>	
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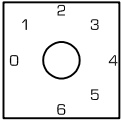
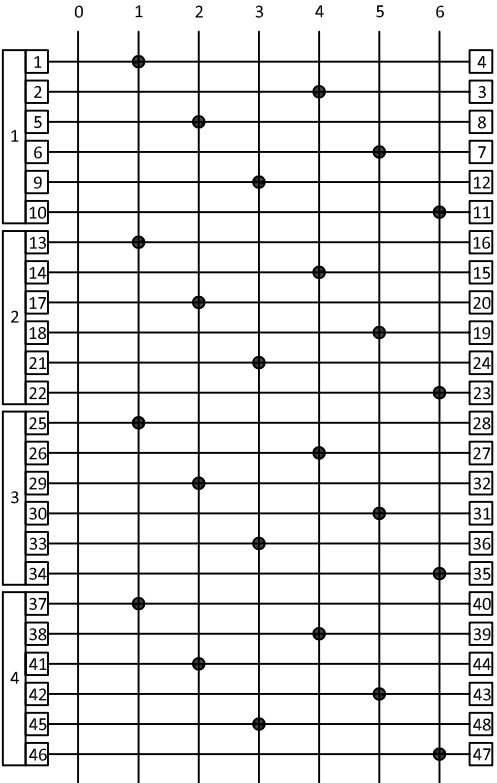
6 pos. switch without "0" Position, with 1 Input and 6 output per Pole.

<p>1 pole 2 pole 3 pole 4 pole</p>		<p>3 6 9 12</p>	<p>603004 606004 609004 612004</p>	
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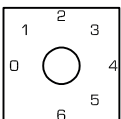
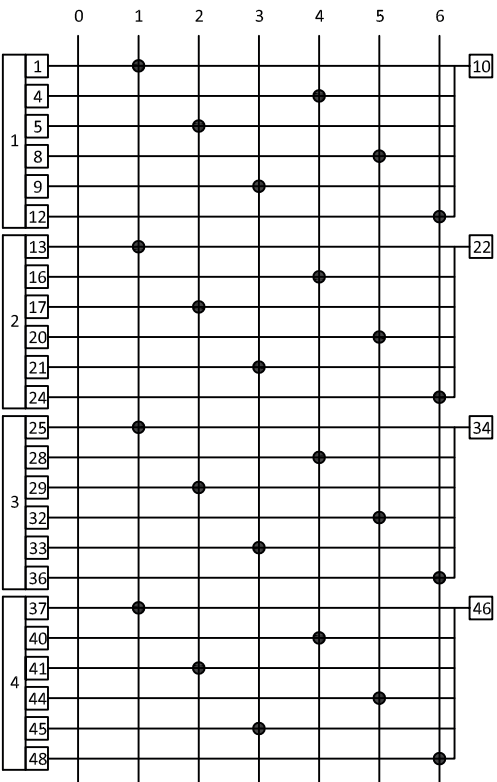
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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7 pos. switch With "0" Position, with electrically isolated contacts.

1 pole 2 pole 3 pole 4 pole		3 6 9 12	703012 706012 709012 712012	
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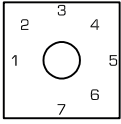
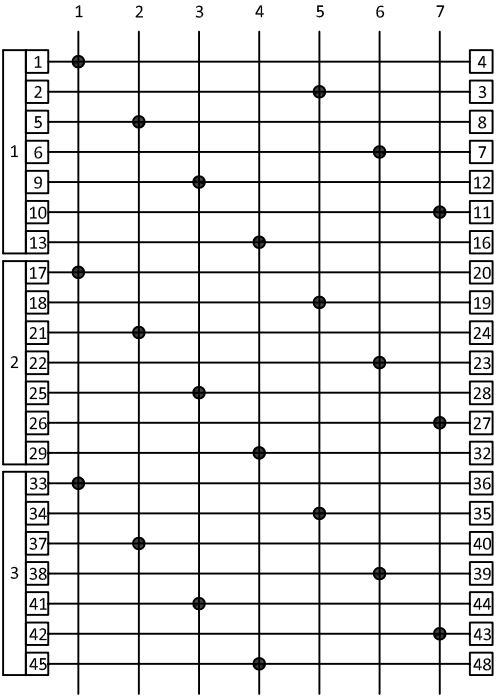
7 pos. switch with "0" Position, with 1 Input and 6 output per Pole.

1 pole 2 pole 3 pole 4 pole		3 6 9 12	703006 706006 709006 712006	
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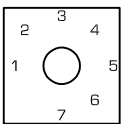
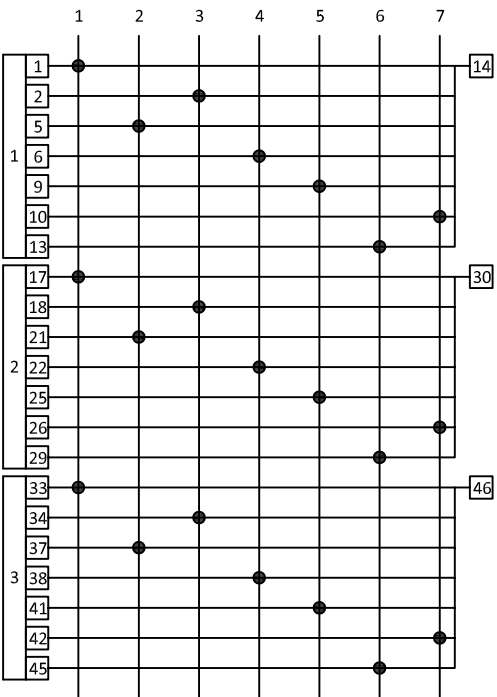
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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7 pos. switch Without "0" Position, with electrically isolated contacts.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>704001 708001 712001</p>	
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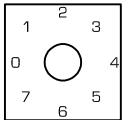
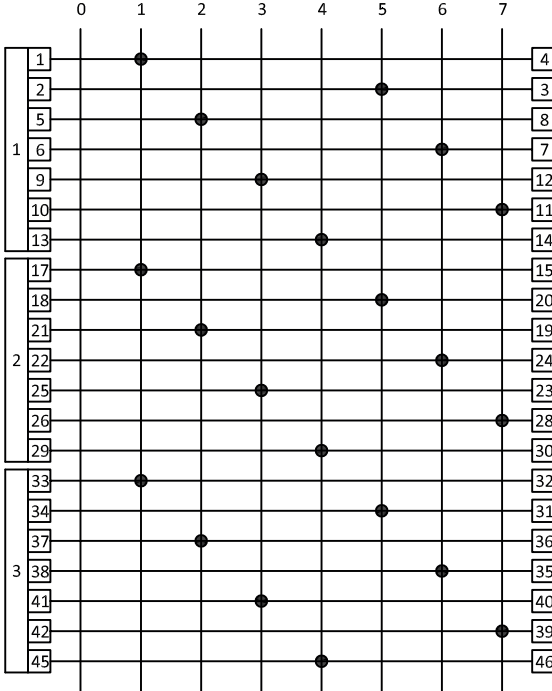
7 pos. switch without "0" Position, with 1 Input and 7 output per Pole.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>704013 708013 712013</p>	
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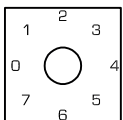
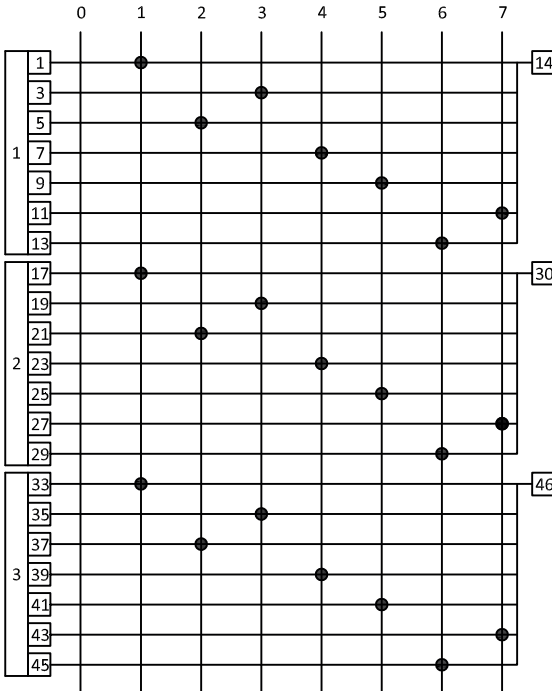
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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8 pos. switch With "0" Position, with electrically isolated contacts.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>804003 808003 812003</p>	
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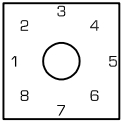
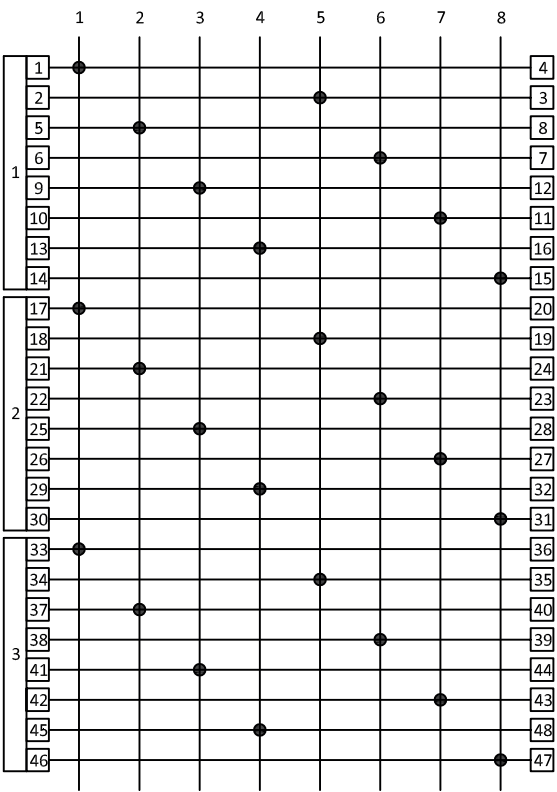
8 pos. switch with "0" Position, with 1 Input and 7 output per Pole.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>804005 808005 812005</p>	
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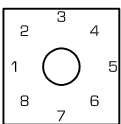
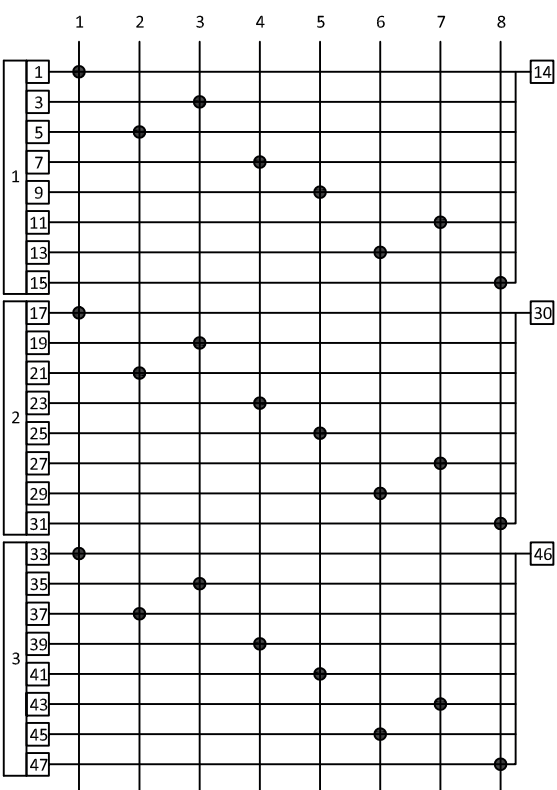
Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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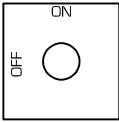
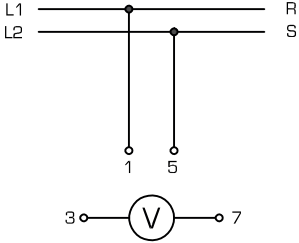
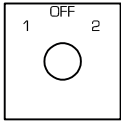
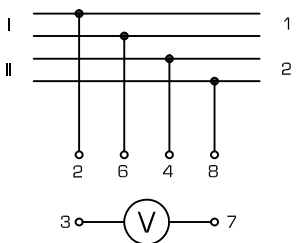
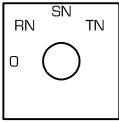
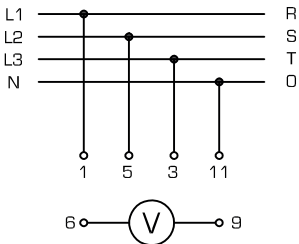
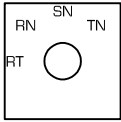
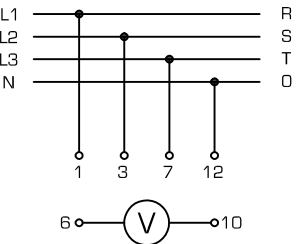
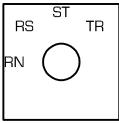
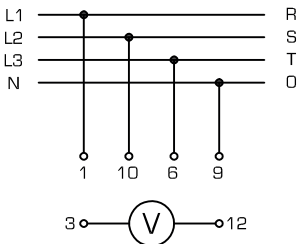
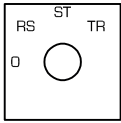
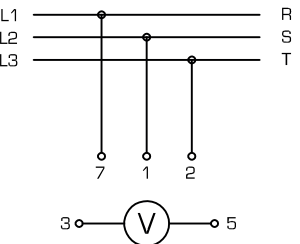
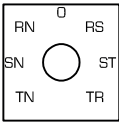
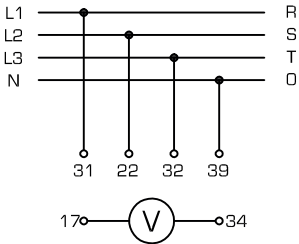
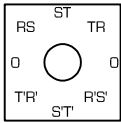
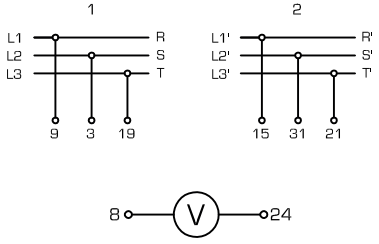
8 pos. switch Without "0" Position, with electrically isolated contacts.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>804001 808001 812001</p>	
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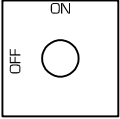
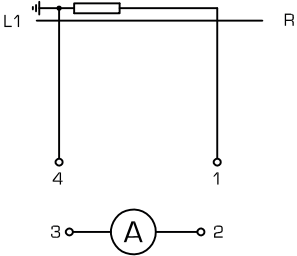
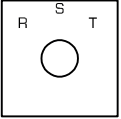
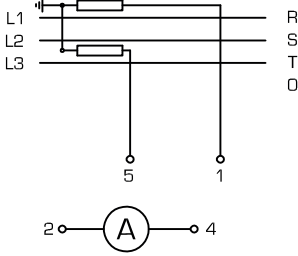
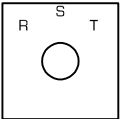
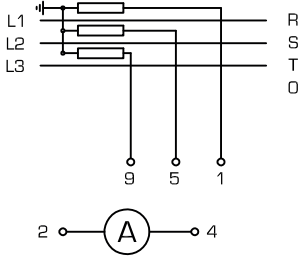
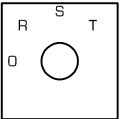
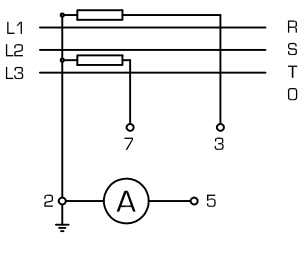
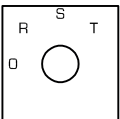
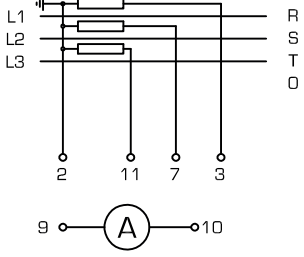
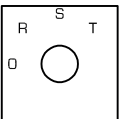
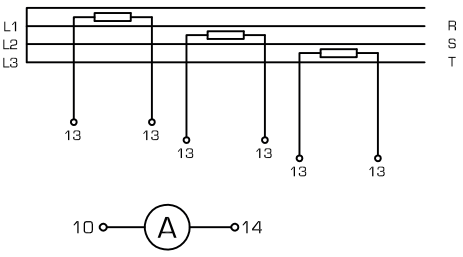
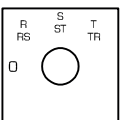
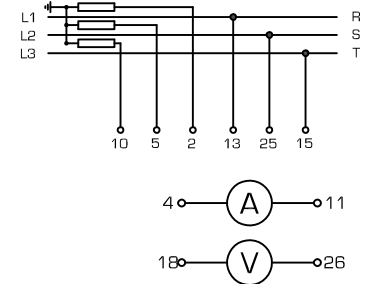
8 pos. switch without "0" Position, with 1 Input and 8 output per Pole.

<p>1 pole 2 pole 3 pole</p>		<p>4 8 12</p>	<p>804002 808002 812002</p>	
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Switch Function and Configuration

<p>Diagram n° 202V</p>	<p>VOLTMETER SWITCH: 2 wire Single Phase or DC</p>	<p>Diagram n° 302V10</p>	<p>VOLTMETER SWITCH: 4 wire two Phases or two separate DC circuits</p>
			
<p>Diagram n° 403V15</p>	<p>VOLTMETER SWITCH: 3 Phase Voltage</p>	<p>Diagram n° 403V16</p>	<p>VOLTMETER SWITCH: 1 Phase to Phase and 3 phases Voltage.</p>
			
<p>Diagram n° 403V17</p>	<p>VOLTMETER SWITCH: 1 Phase Voltage and 3 Phase to Phase</p>	<p>Diagram n° 402V09</p>	<p>VOLTMETER SWITCH: 3 Phase to Phase</p>
			
<p>Diagram n° 705V12</p>	<p>VOLTMETER SWITCH: 3 Phase and 3 Phase to Phase</p>	<p>Diagram n° 8508</p>	<p>VOLTMETER SWITCH: 3 Phase to Phase in two 3 Phase circuits.</p>
			

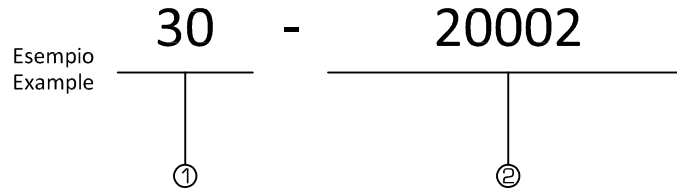
Switch Function and Configuration

<p>Diagram n° 2G02</p>	<p>AMMETER SWITCH: 1 phase Current Transformer with "0" Pos.</p>	<p>Diagram n° 302A01</p>	<p>AMMETER SWITCH: 3 Current Measurements with 2 CT without "0"</p>
			
<p>Diagram n° 303A11</p>	<p>AMMETER SWITCH: 3 Current Measurements with 3 CT without "0"</p>	<p>Diagram n° 402A06</p>	<p>AMMETER SWITCH: 3 Current Measurements with 2 CT with "0"</p>
			
<p>Diagram n° 403A08</p>	<p>AMMETER SWITCH: 3 Current Measurements with 3 CT with "0"</p>	<p>Diagram n° 405A02</p>	<p>AMMETER SWITCH: 3 Current Measurements with 3 CT with "0" crossing Currents.</p>
			
<p>Diagram n° 407AV01</p>	<p>VOLT-AMMETER SWITCH: 3 Current Measurements with 3 CT with "0" For Voltages and Currents Measurements</p>		
			

Standard Escutcheon Plate Ordering

La mostrina si intende parte integrante del commutatore in quanto necessaria per il fissaggio al pannello dello stesso, se non specificata nessuna incisione essa verrà fornita Neutra, codice 00000.

The Escutcheon plate is strictly necessary for fitting the switch to the panel, if none engraving is specified, the frontplate will be supplied Blank, code 00000. The engraving listed below, are only a little part of those available, require the code of the needed one if not present.



① Dimensions of the Escutcheon Plate.

30= 30x30mm
48= 48x48mm





































































②

2 Positions

1 0	AUT. MAN.	MAN. AUT.	AUT. MAN.	1 2	INCL. ESCL.	DIST. LOC.	2 1	REMUTE LOCAL	1	L R	LOC. REM.	TE TI	OFF ON
20002	20004	20006	20007	20008	20010	20012	20013	20016	20022	20028	20030	20035	20036
R L	REM. LOC.	ON OFF	AUTO	MAN.	LOC. DIST.	OFF ON	AUT. MAN.	PROVA SERVIZIO	LOC. SUPV.	EMERGENCY NORMAL	B A	SHIP SHORE	HAND AUTO
20037	20041	20050	20054	20055	20059	20068	20070	20106	20187	20160	20065	20085	20184
PARALLELO INDIVIDUALE	REM. SUPV.	MANUAL AUTO	IN OUT	TRIP ALARM	MANUAL AUTO	SERV. TRIP	NORMAL TEST	TR1 TR2	ATA ATB	MAIN A B NEW	WINTER SUMMER	LOC. SCADA	OUTBOARD SHORE
20116	20404	20231	20322	20505	20463	20058	20138	20174	20196	20277	20289	20429	20341
NORMAL TRANSFER	REM. SUPV.	GS L	BYPASS SERVICE	M A	0 1	OUT IN	TRIP NORMAL	DG1 DG2	HAND AUTO	AUTO MANUAL			
20346	20404	20161	20510	20021	20001	20464	20553	20279	20152	20205			

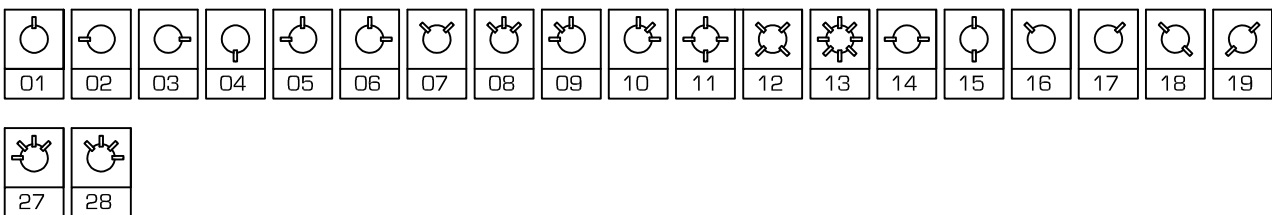
3 Positions

MAN. 0 AUT.	AUT. 0 MAN.	M 0 A	CH. 0 AP.	DIM. 0 ALUM.	AP. 0 CH.	1 0 2	TEST 0 TRIP	0 1 2	LOC. 0 DIST.	1 2 3	ALUM. 0 DIM.	OPEN 0 CLOSE	CLOSE 0 OPEN
30003	30004	30005	30010	30011	30012	30013	30014	30015	30016	30017	30019	30024	30031
A C B	START 0 STOP	TRIP 0 CLOSE	LOC. 0 REM.	LOC. 0 AUT.	1 2 0 3	0 MAN. AUT.	MAN. 0 AUT.	1 0 2	TRIP 0 CLOSE	TEST 0 STOP	EM. LOC. REM.	ON OFF TEST	RAISE 0 LOWER
30032	30050	30052	30057	30060	30082	30083	30084	30385	30085	30086	30078	30079	30087
DCS SCADA SCS	INCR. 0 DECR.	COLD 0 HEAT	G1 0 G2	A / B B	OFF 0 ON	L 0 R	D 1 1+3	TRIP NEUTRAL CLOSE	1 OFF 2	RS ST TR	RY YB BR	R S T	R Y B
30088	30089	30090	30040	30047	30055	30062	30172	30120	30561	30630	30631	30632	30633
LOC. REM.	A B C	TEST TRIP N.D.	AUTO OFF MAN.	LOWER OFF RAISE	OUVRE 0 FERMÉ	LOC. REM. SUPV.	SHORE OFF GEN.	IN 0 OUT	AUTO 0 HAND	LOC. OFF REM.	TR1 TR2	T1 T2	LOC. REM.
30025	30114	30371	30080	30113	30154	30165	30634	30626	30635	30467	30476	30486	30192
IN NORMAL OUT	BYPASS OFF D-ECK	D L1 L2	S P M	AUTO 0 MAN.									
30609	30608	30183	30526	30108									

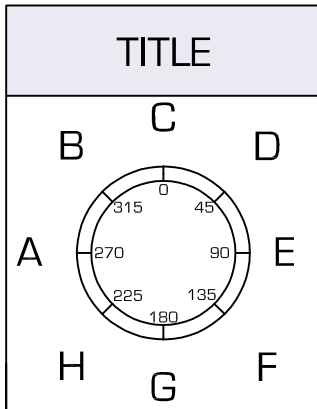
4 Positions														
 40001	 40348	 40457	 40458	 40459	 40128	 40460	 40461	 40009	 40010	 40011	 40462	 40463	 40464	
 40465	 40027	 40017	 40015	 40018	 40019	 40021	 40466	 30015	 40177	 40023	 40072	 40029	 40071	
 40235	 40019	 40230	 40237	 40037	 40056	 40137	 40223	 40231						
5 Positions														
 50001	 50002	 50005	 50006	 50048	 50005	 50061	 50051	 50062	 50063	 50014	 50010	 50064		
6 Positions														
 60001	 60002	 60015	 60019	 60016	 60020									
7 Positions														
 70001	 70002	 70007	 70010	 70037	 70008	 70029	 70036							
8 Positions														
 80004	 80005	 80002												
Blank														
 00000														

Locking Programs

The reference line shows where the switch is blocked and the key is withdrawn.



Form for special diagram



Position Engraving	
Position	Engraving
TITLE	
A	
B	
C	
D	
E	
F	
G	
H	

Lock in Pos.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spring Return	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positions										
A	B	C	D	E	F	G	H			

Switch Action :		
Stayput <input type="checkbox"/>	Spring return <input type="checkbox"/>	Stayput and Spring return <input type="checkbox"/>
Specification:.....		

Contacts	A	B	C	D	E	F	G	H
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

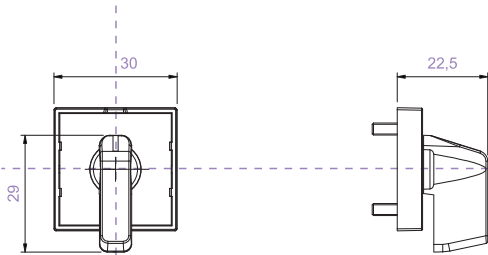
Model number:

Ordering Code : (it will provided by COMELETIC)

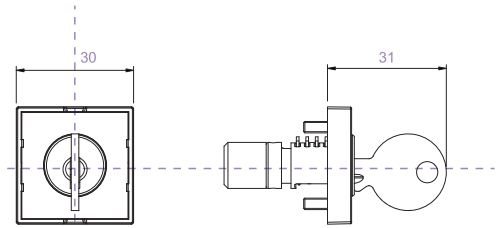
Accessories / Informations:		
Panel Mounting <input type="checkbox"/>	Pistol Grip Handle <input type="checkbox"/>	Key Operated (Different Keys) <input type="checkbox"/>
Base Mounting <input type="checkbox"/>	Padlockable <input type="checkbox"/>	Electromechanical interlock <input type="checkbox"/>
Gilded Contacts <input type="checkbox"/>	Master Key <input type="checkbox"/>	<input type="checkbox"/>

Legenda Symbols			
	Closed Contact		Spring Return
	Closed Contact Two consecutive Positions		Spring Return from Left and Right
	Make Before Break Contacts		

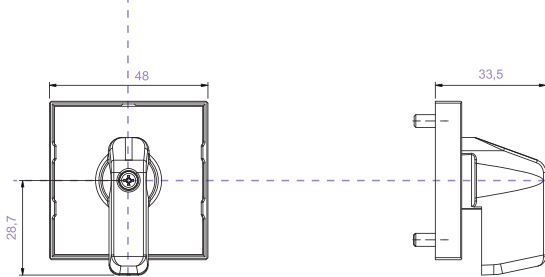
Wing Handle 30x30
Manopola Wing 30x30



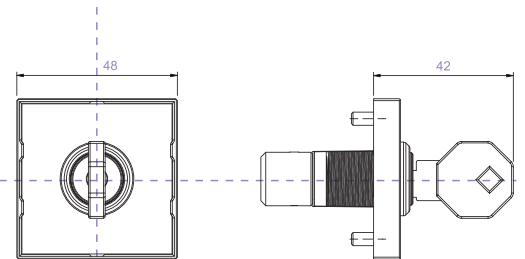
Key Operated 30x30
Operatore a Chiave 30x30



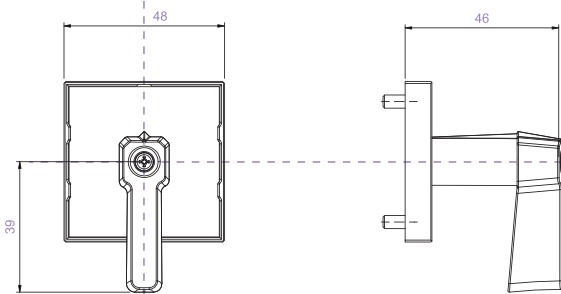
Wing Handle 48x48
Manopola Wing 48x48



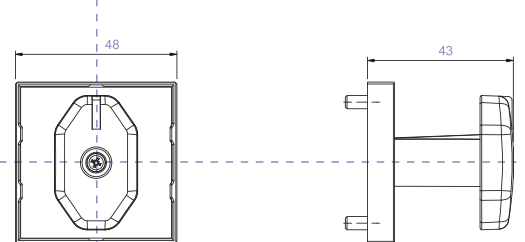
Key Operated 48x48
Operatore a Chiave 48x48



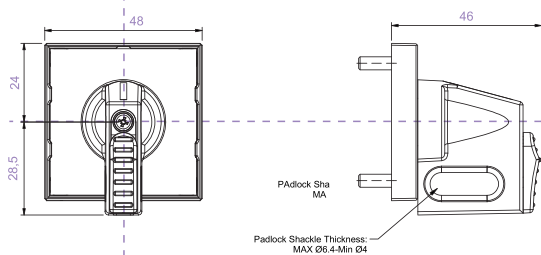
Pistol Grip Handle 48x48
Manopola a Pistola 48x48



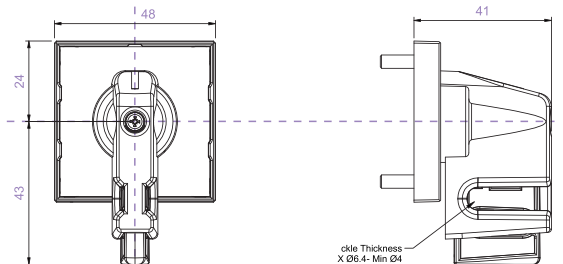
Small Oval Handle 48x48
Manopola Ovale Piccola 48x48



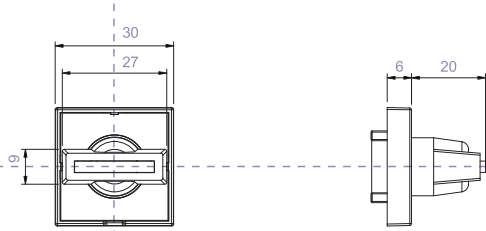
Small Padlockable 48x48
Lucchettabile Piccola 48x48



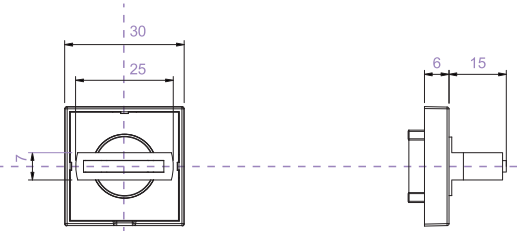
Padlockable 48x48
Manopola Lucchettabile 48x48



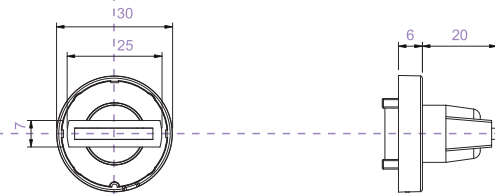
Discrepancy Switch Handle 30x30
Manopola Discrepancy 30x30



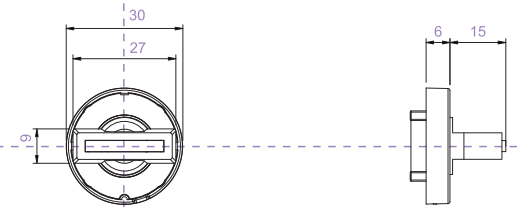
Discrepancy Switch Handle 30x30
Manopola Discrepancy 30x30



Discrepancy Switch Handle Ø30
Manopola Discrepancy Ø30



Discrepancy Switch Handle Ø30
Manopola Discrepancy Ø30



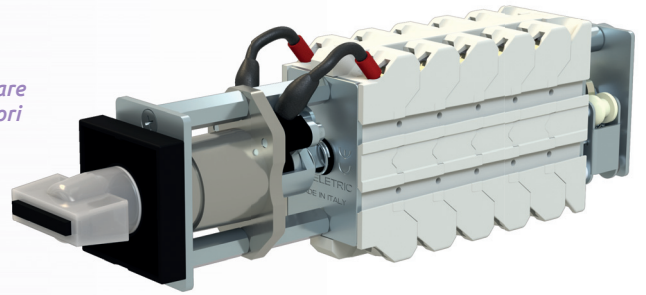
DR801 Model:

Discrepancy switch.
They are mainly used to monitor and visualize the status of disconnecter switches and circuit breakers on mimic panels.

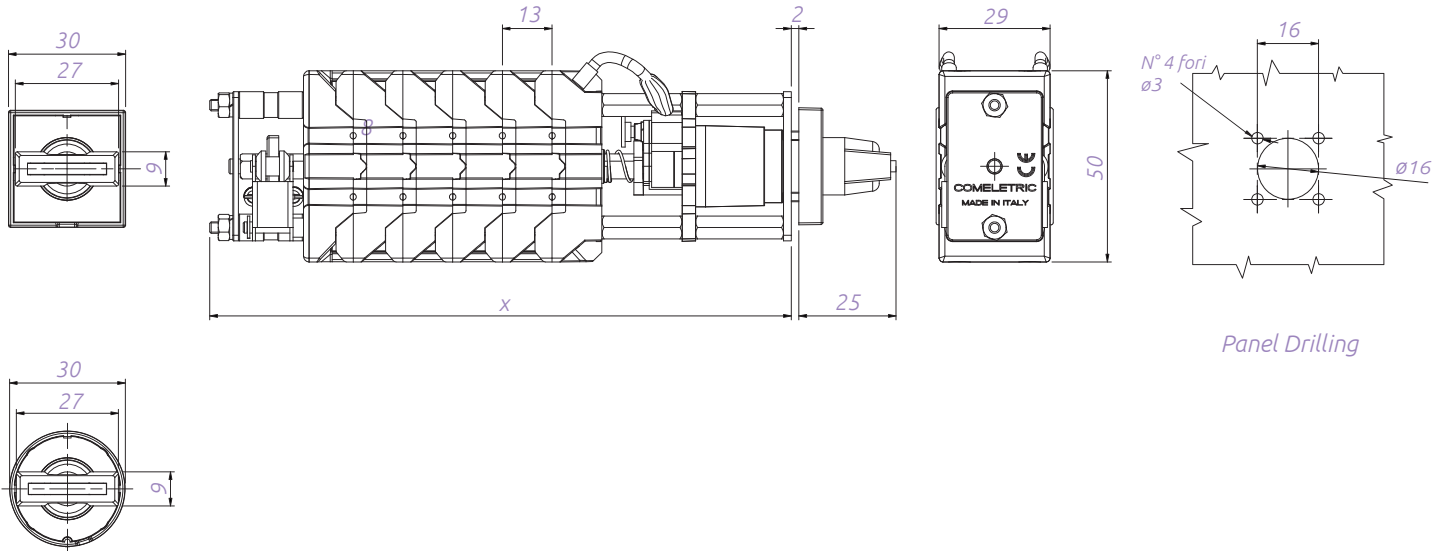
The luminous signal is provided by a led lamp bayonet type BA7S in different colours and Voltages.

Manipolatore comando e conferma.
Essi vengono prevalentemente utilizzati per controllare e visualizzare lo stato dei sezionatori ed interruttori sui quadri sinottici.

Il segnale luminoso è realizzato mediante lampada led con attacco a baionetta BA7S disponibile in diversi colori e tensioni.



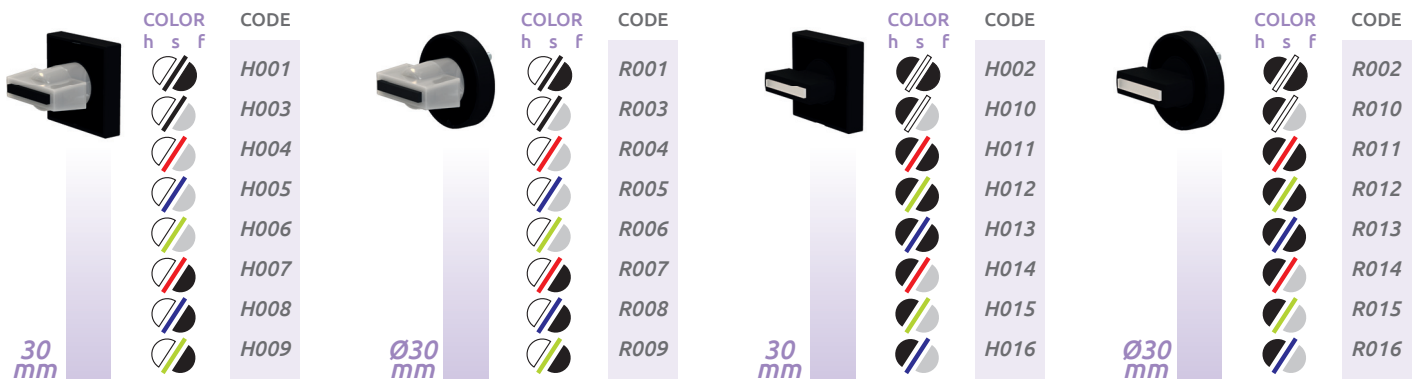
Dimensions



Panel Drilling

N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	113	126	139	152	165	178	191	204	217	230	243	256

DR801 Frontplates DR801 Mostrine

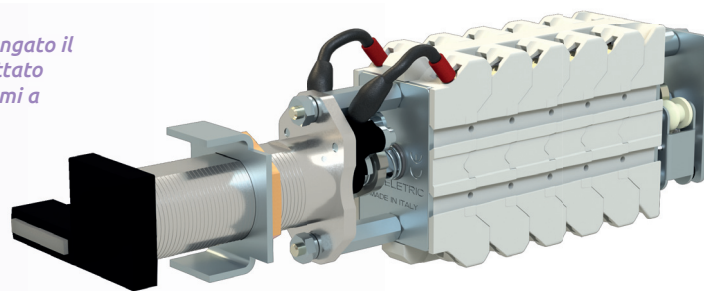


h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

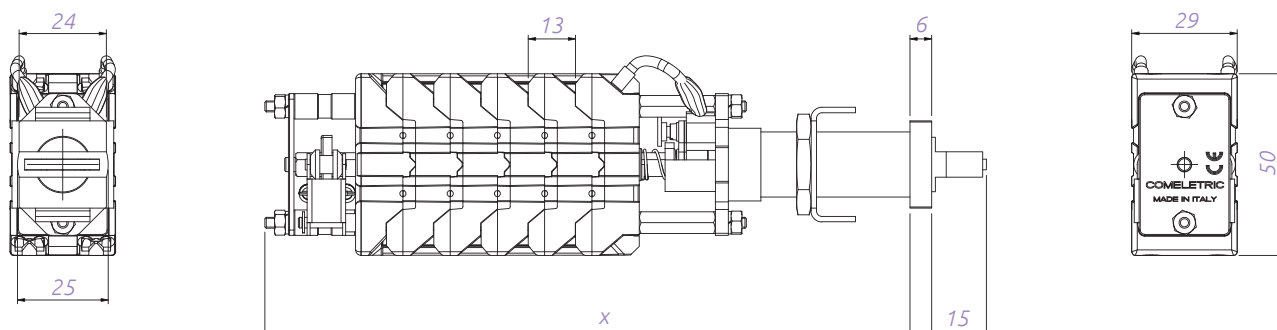
DR803 Model:

Thanks to the prolonged frontal body, the switch can be easily fitted also in a wide range of Mosaic Tile Systems. Frontplate 24x24mm.

Grazie al corpo frontale prolungato il manipolatore può essere adattato facilmente anche su vari sistemi a mosaico. Mostrina frontale 24x24mm.

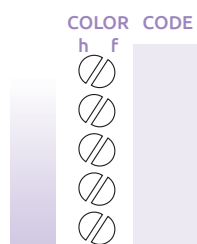
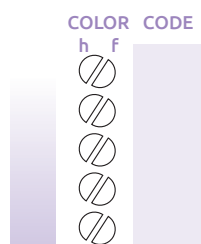
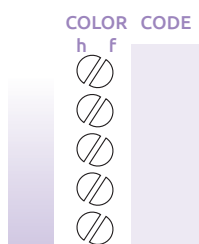
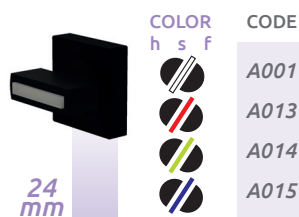
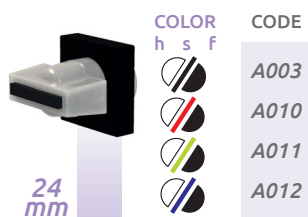


Dimensions



N° of packets	1	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	139	152	165	178	191	204	217	230	243	256	269	282

DR803 Frontplates DR803 Mostrine

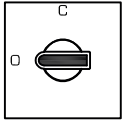
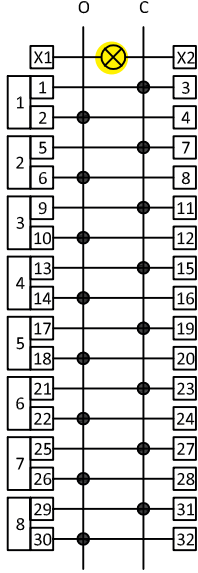
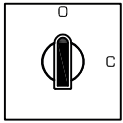


h=handle; f=frontplate
h=manopola; f=mostrina
Frontplate dimension on page 33/34
Dimensioni frontali a pag. 33/34

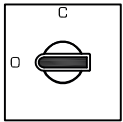
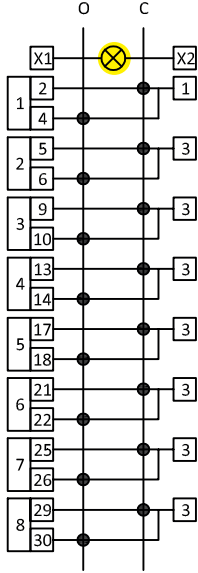
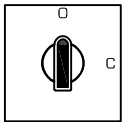
Discrepancy Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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Indication the position of the CB or DS

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	A01001 A02001 A03001 A04001 A05001 A06001 A07001 A08001	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	A01003 A02003 A03003 A04003 A05003 A06003 A07003 A08003	

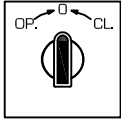
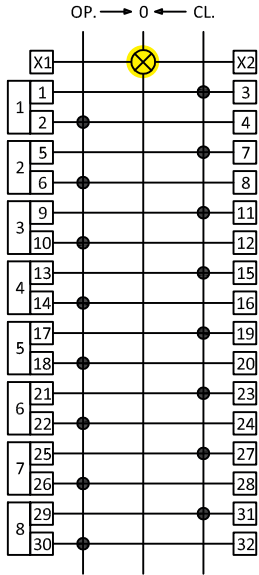
Indication the position of the CB or DS

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	B01001 B02001 B03001 B04001 B05001 B06001 B07001 B08001	
1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	B01003 B02003 B03003 B04003 B05003 B06003 B07003 B08003	

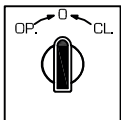
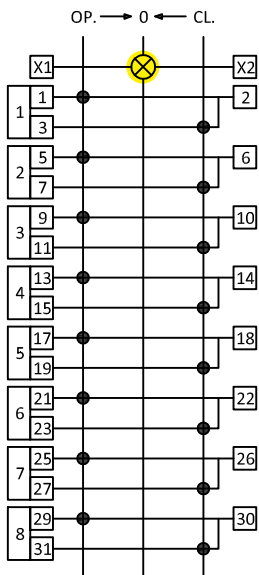
Discrepancy Switch Function and Configuration

Function	Handle Movements	Decks	Code	Connection Diagram
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Control and indication of CB or DS

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	C01001 C02001 C03001 C04001 C05001 C06001 C07001 C08001	
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Control and indication of CB or DS

1 pole 2 pole 3 pole 4 pole 5 pole 6 pole 7 pole 8 pole		1 2 3 4 5 6 7 8	C01003 C02003 C03003 C04003 C05003 C06003 C07003 C08003	
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Discrepancy Switch Function and Configuration

Principio di operazione Tipo : D ed E

I manipolatori con l'azionamento tipo D ed E sono tipicamente chiamati Manipolatori di comando e segnalazione di discordanza.

Questi Manipolatori Hanno 2pos. con spostamento di 90° e 2 extra impulsi di 45° per il comando di Apertura e di chiusura.

La manopola viene ruotata di 90° per comandare il relativo Interruttore /Sezionatore.

Questa tuttavia è solamente una fase di preselezione del comando , il comando viene confermato tramite la pressione della manopola e la relativa rotazione , una volta rilasciata la manopola essa ritorna automaticamente nella relativa posizione.

Principle of operation Type : D and E

The switches with the movements type D and E are basically called control discrepancy switches.

The control discrepancy switch has two fixed positions with a movement of 90° and two extra impulses of 45° on the positions of open and close.

The knob is first rotated by 90° to command the relative Disconnecter Switch/Circuit Breaker.

This is however, a " pre-selection" phase of the desired command , the operation is confirmed by pressing and rotating the knob by 45°, which, once released, will return automatically into position.

Handle Movements	Code	Connection Diagram	Handle Movements	Code	Connection Diagram
	D02001			D02006	
	D02008			D02009	
	D03001			D03002	
	D03008			D03015	
	D0300621			D0300612	
	D0301821			D0301812	

Discrepancy Switch Function and Configuration

Handle Movements	Code	Connection Diagram
	D04001	
	D04008	

Handle Movements	Code	Connection Diagram
	D04002	
	D04015	

Handle Movements	Code	Connection Diagram
	E04001	
	XXXXX	

Handle Movements	Code	Connection Diagram
	D05001	
	D05008	

Handle Movements	Code	Connection Diagram
	D05002	
	D05015	

Handle Movements	Code	Connection Diagram
	D06001	
	D06008	

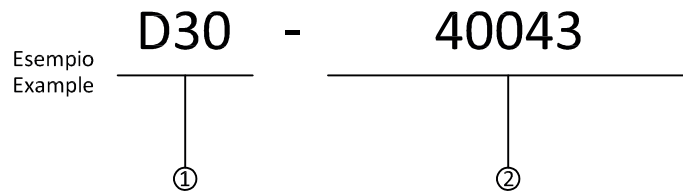
Handle Movements	Code	Connection Diagram
	D06002	
	D06015	

Handle Movements	Code	Connection Diagram
	E06001	
	XXXXXX	

Discrepancy Switches Escutcheon Plate Ordering

La mostrina si intende parte integrante del commutatore in quanto necessaria per il fissaggio al pannello dello stesso, se non specificata nessuna incisione essa verrà fornita Neutra, codice 00000.

The Escutcheon plate is strictly necessary for fitting the switch to the panel, if none engraving is specified, the frontplate will be supplied Blank, code 00000. The engraving listed below, are only a little part of those available, require the code of the needed one if not present.



① Dimensions and shape of the Escutcheon Plate for Discrepancy Switches.

30= 30x30mm Square / Quadra

D30= 30mm Round / Tonda

②

2 Positions

 20002	 20256	 20264	 20299	 20584	 20585	 20586	 20587	 20588	 20589
 20590	 20022	 20001	 20591	 20488	 20592	 20593	 20594	 20595	

3 Positions

 30012	 30065	 30024	 30667	 30154	 30021	 30140	 30052	 30010	 30186
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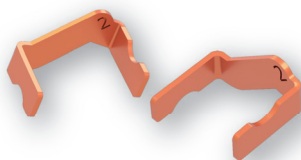
4 Positions

 40043	 40044	 40058	 40059	 40060	 40079	 40094	 40097	 40103	 40126
 40252	 40121	 40095	 40175	 40127	 40156	 40088	 40253	 40254	 40257
 40258	 40227	 40256	 40259	 40255	 40260				

Gilded Contacts
Contatti Dorati

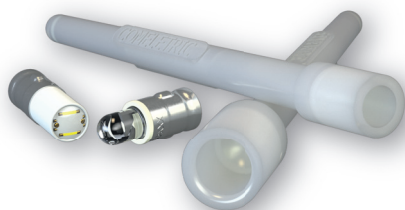
To Improve the reliability and the performances, even in the most aggressive environments, contacts can be supplied with special surface treatments, such as gold with thickness certificate.

Per migliorare l' affidabilità e le prestazioni anche negli ambienti più aggressivi, è possibile fornire i contatti con speciali trattamenti superficiali, con spessori Certificati (es. oro).

Jumpers
Ponticelli

Stamped Jumpers.

Ponticelli pretranciati.

Lamp Extractor for Discrepancy Switch
Estrattore Lampade per Discrepancy Switch

Led lamps and extractor tool for discrepancy switches DR8, available at 24V-48V-110V-125V-130V-220VDC/AC.

Lampade Led ed estrattore per manipolatore luminoso DR8, disponibili a 24V-48V-110V-125V-130V-220VDC/AC.

Legend Label 48 mm
Mostrina Addizionale Titolo 48 mm

It shows the function of the switch. Available for frontplates sized mm.48x48. It does not require any extra drilling on the panel.

Indica la funzione specifica del singolo commutatore disponibile per mostrina mm.48x48. Non necessita nessuna foratura pannello supplementare per il fissaggio.

**STANDARD UTILIZATION CATEGORIES
CATEGORIE DI UTILIZZO NORMALIZZATE**

Kind of current Tipo di corrente	Category Categoria	Typical applications Applicazioni tipiche
Alternative current Corrente alternata	AC14	Control of small electromagnetic load with rated power = 72VA Comando di piccoli carichi elettromagnetici con potenza = 72VA
	AC15	Control of electromagnetic load with rated power > 72VA Comando di carichi elettromagnetici con potenza > 72VA
Direct current Corrente continua	DC13	Control of electromagnets Comando di elettromagneti
	DC14	Control of electromagnetic loads having economy resistor in circuit Comando di carichi elettromagnetici aventi resistori economizzatori nel circuito

NORMAL CONDITIONS CONDIZIONI NORMALI				
Utilization category Categoria utilizzazione	Make Chiusura	Break Interruzione	U/Ue	COS Φ
	I/Ie	I/Ie		
AC14	6	1	1	0.3
AC15	10	1	1	0.3

ABNORMAL CONDITIONS CONDIZIONI ANOMALE				
Utilization category Categoria utilizzazione	Make Chiusura	Break Interruzione	U/Ue	COS Φ
	I/Ie	I/Ie		
	6	6	1.1	0.7
	10	10	1.1	0.3

				T _{0.95} [ms]
DC13	1	1	1	6xP
DC14	10	1	1	15

				T _{0.95} [ms]
	1.1	1.1	1.1	6xP
	10	10	1.1	15

- I / Ie : Current to be made or broken and Rated operational current ratio.
Rapporto tra la corrente che l'apparecchiatura è in grado di stabilire o interrompere e la corrente d'impiego.
- U / Ue : Voltage before make and Rated operational voltage ratio.
Rapporto tra la tensione prima della chiusura e la tensione d'impiego.
- T_{0.95} : Time to reach 95% of the steady-state current.
Tempo per raggiungere il 95% della corrente di regime.
- P=Ue x Ie: Steady-state power consumption in W.
Potenza assorbita a regime in W.

The value "6xP" result from empirical relationship which is found to represent most d.c. magnetics loads to an upper limit of P =50W, i.e. 6 x P=300 ms. Load having power-consumption greater than 50W are assumed to consist of smaller loads in parallel. Therefore, 300 ms is to be an upper limits irrespective of the power. (REFERENCE STANDARD IEC 60947-5-1 tab. 5).

La relazione matematica "6xP" è valida per tutti carichi induttivi rappresentativi fino ad un massimo di P pari a 50W cioè 6xP =300ms. Si assume che i carichi aventi una potenza assorbita superiore a 50W siano costituiti da piccoli carichi collegati in parallelo, di conseguenza 300ms è il valore massimo a prescindere dalla potenza assorbita. (RIFERIMENTO NORMA IEC 60947-5-1 tab. 5)

**RATED ELECTRICAL CHARACTERISTICS
CARATTERISTICHE ELETTRICHE NOMINALI**

According to standards Conformità alle norme	IEC 60947-1 - IEC 60947-1/A1 - IEC60947-5-1 - IEC60947-5-1/A1 - EN 60947 -1/A1 - EN 60947-5-1 EN 60947-5-1/A1 - VDE 0660-100 - VDE 0660-200 - 2006/95/EC (LOW VOLTAGE DIRECTIVE), 2004/108/EC (EMC DIRECTIVE), 2011/65/EU (ROHS DIRECTIVE).	
Conventional free air thermal current Corrente convenzionale termica in aria	(I _{th})	20A
Rated insulation voltage Tensione di isolamento nominale	(U _i)	690V
Rated impulse withstand voltage Tensione di tenuta ad impulso nominale	(U _{imp})	4Kv
Frequency Frequenza di impiego		50/60Hz

**RELEVANT INFORMATION ABOUT THE ASSOCIATED SHORT CIRCUIT PROTECTIVE DEVICE
DATI RELATIVI AL DISPOSITIVO DI PROTEZIONE CONTRO IL CORTO CIRCUITO ASSOCIABILE**

Corrente di corto circuito condizionata nominale (I _{cc}) Conditional short-circuit	1000A	
Fuse Type Tipo fusibile	Gg	20A-400V
Contact resistance Resistenza di contatto	mΩ5	

**MAKING AND BREAKING CAPACITIES
POTERI DI CHIUSURA ED INTERRUZIONE**

Categoria di utilizzazione Utilization Category	(U _e)	(I _e)
AC14	400V	10A
AC15	400V	6V
DC13 L/R 50 ms	220V	1,5A
DC13 L/R ≤ 1 ms	220V	3A

**RESISTANCE TO SHOCK AND VIBRATION (IEC 61373 - CEI EN 61373 Railway applications, Rolling stock equipment)
RESISTENZA VIBRAZIONI E URTI (IEC 61373 - CEI EN 61373 Applicazioni ferroviarie, materiale rotabile).**

Vibration resistance
Resistenza alla vibrazione

Vibration Range: 5 to 150Hz, Acceleration: 5,72m/s², Time: 5h (in 3 directions)
Range di frequenza da 5 a 15Hz, Accelerazione: 5,72m/s², Tempo: 5h (in 3 direzioni)

Shock resistance
Resistenza agli urti

Acceleration: 50m/s² (in 6 directions) , Time: 30ms
Accelerazione: 50m/s² (in 6 direzioni) , Tempo: 30ms



Recommended tightening torque to avoid thread stripping
Don't exceed torque more than indicated.

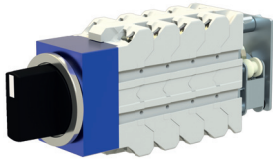
Coppia di serraggio consigliata per evitare di rovinare il filetto della vite
Non superare la coppia più di quanto indicato.

Conneting screw Vite di contatto terminale		M3
Tightening torque Coppia serraggio viti	(Nm)	1.2
Permissible wire gage Sezione del conduttore		
Single - core or stranded wire cavo rigido o intrecciato	(mm ²)	2 x 2.5 2 x AWG13
Flexible wire Cavo flessibile	(mm ²)	2 x 2.5 2 x AWG13

**ENVIRONMENTAL DATA (IEC 60947-1 - CEI EN 60947-1)
DATI AMBIENTALI**

Temperature range Temperatura ambientale	
Operating temperature Esercizio	-25°C +60°C
Storage temperature Stoccaggio	-40°C +80°C
Pollution degree Grado di inquinamento	PLDG 2

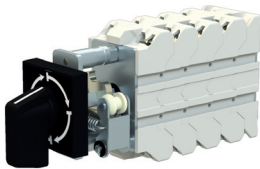
Low Profile Aluminium Satin Plate
Filoghiera in Alluminio Satinato



Flat ring switch with anodized aluminium ring plate, for high thickness panels.

Fissaggio Filo Ghiera in Alluminio anodizzato.

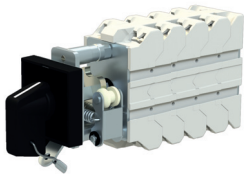
R801 Unidirectional Switch
R801 Rotazione Unidirezionale



Available for switches with 4 positions at 90° or 8 positions at 45°. It can be handled only clockwise or counterclockwise.

Disponibile per commutatori a 4 posizioni a 90° o 8 posizioni a 45°. Abilita la rotazione solamente in senso orario o antiorario.

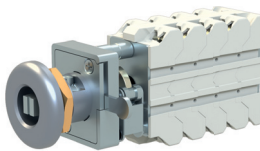
Wire Plumb Sealed Switch
Bloccaggio con filo a piombo



Plumb sealed switch.

Commutatore piombabile.

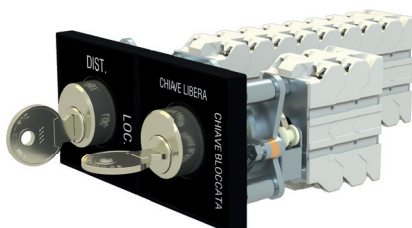
Conductor Key Operated Switch
Commutatore con Operatore a Chiave Ferroviaria



Designed for the most renowned companies involved in railway applications. Frontpart in Stainless steel, available with stayput or spring return positions.

Sviluppato in collaborazione con le più rinomate aziende appositamente per applicazioni ferroviarie, frontale completamente in acciaio Inox, disponibile a posizioni fisse o con molla di ritorno.

Interlock beetwen key switches



The operation of one switch and the relative keys is dependent on the position of the other switch.

Grazie a questo dispositivo si può bloccare l'operazione di uno dei due commutatori e della chiave in relazione alla posizione dell'altro, le chiavi utilizzate sono le medesime degli interblocchi serie KB, questo agevola quindi combinazioni ed interscambi con altri dispositivi (vedi Catalogo Key Exchange box and Interlocks Safety Systems).

C-R8 10/19

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