

telergon
gorlan

Cam switches

www.telergon.com

gorlan

Cam switches

series
T|TB|TF|TP

Cam switches available in different construction models over a wide current range with a large variety of accessories.

According to:
IEC 60947-3
UL 60947-4-1 - CAN/CSA C22.2 Nº 14 RoHS

Testing and approvals:



Cam switches are manufactured in different series under strict quality controls to provide a reliable product that meets the most demanding requirements.

They consist of chambers, each containing up to two double break contacts of positive opening. These contacts silver alloy plated providing a long electromechanical life.

In sizes 0 - 1 and 2, the terminals are equipped with captive clamp screws to facilitate installation work, and all the connections themselves are covered to provide an IP20 protection rating.

The different configurations of contacts available provide flexible, faster and safer solutions for several electrical operations at a highly competitive cost.

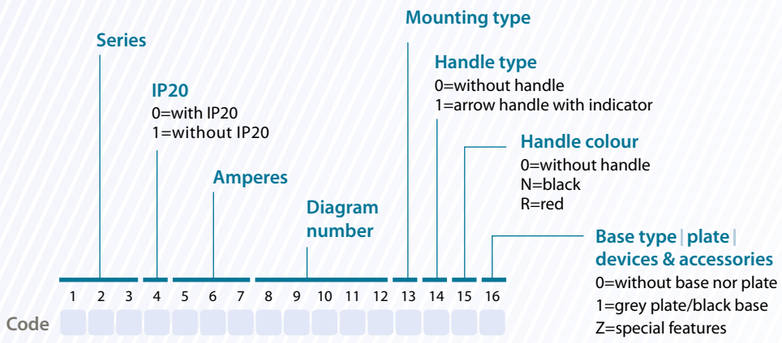
Range codification:

Standard products

They are listed in this section and are encoded according to the 16-digit bar logic explained below. This descriptive method will be used on all pages in the cam switches range for your convenience and better understanding.

Special products

They are made according to customer specifications or to comply with a diagram or special scheme. In these cases, the code is formed by the corresponding series (T-TB-TF-TP), the amperage and an order number assigned to the scheme (see blank diagrams form).



Example: T - 0 0 1 0 0 0 0 0 1 2 E 1 N 1

T series | 100 amperes | 012 diagram | E fixing | Standard handle | Black colour | Grey plate/black base |

series T



1 2 3 4 5 6
T -

- Wide range of sizes and ratings.
- Supplied with IP20 removable terminals protection on sizes 0 - 1 - 2 (except T175).
- Wide range of devices and accessories.

series TB



1 2 3 4 5 6
T B -

- Side access to all terminal screws (up and down).
- Two different bodies depending on mounting type: door or base mounting.
- Wide range of devices and accessories.

series TF



1 2 3 4 5 6
T F -

- Square body, smooth sides, axial access to terminal screws.
- Two different bodies depending on mounting type: door or base mounting.
- Wide range of devices and accessories.

series TP



1 2 3 4 5 6
T P -

- Reduce-sized body.
- Door mounting only.
- Wide range of devices and accessories.

series | type T|P



IP65

Serie T
1 2 3 4 5 6
C I T P

- Cam switch in plastic enclosure for gland entry.
- From 12 up to 40 A.
- Padlockable handle under request.

series | type T-TF|R



IP65

Serie T
1 2 3 4 5
C I T R

Serie TF
1 2 3 4 5
C T F R

- Cam switch in plastic enclosure for gland entry.
- From 25 up to 100 A.
- Padlockable handle under request.

series | type T-TB|A-C



IP55

Serie T
1 2 3 4 5
C I T A
1 2 3 4 5
C I T C

Serie TB
1 2 3 4 5
C T B A
1 2 3 4 5
C T B C

- Cam switch in metal enclosure of cast aluminium
  4 A From 12 up to 63 A.
- In sheet steel enclosure
  4 C From 100 A upwards.
- Gland entry.
- Several enclosure sizes.
- Padlockable handle under request.

>> **Ask for more information about these applications with enclosure.**

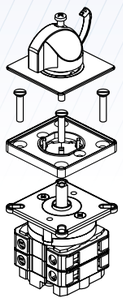
TP | T | TB | TF

Door mounting

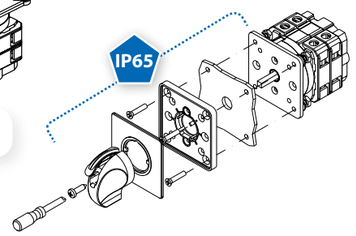
Fixing with screws | E type

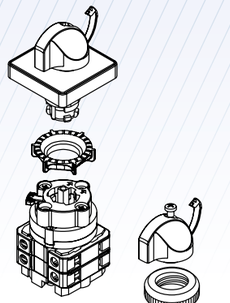
For T - TB - TF - TP series

- Frontal fixing plate for 4 screws, reversible mounting plate in T series (except T175 and size 3).
- Door mounting with arrow handle, indicating plate, escutcheon and fixing plate IP65.

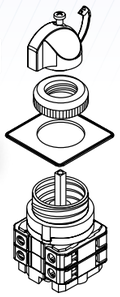


12 13 14 **E**





12 13 14 **C**



12 13 14 **Z**

Central quick fixing ø 22 | C type

For T - TB - TF series

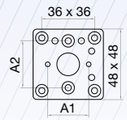
- Door mounting for Ø 22 mm available for sizes 0 and 1.
- For arrow handle with indicator or padlockable handle.
- Maximum number of chambers supported
  Size 0 = 6
  Size 1 = 4

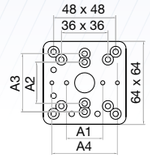
Central fixing with metal nut Ø 22 | Z type

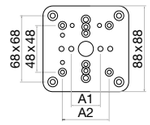
For T - TF series

- Door mounting for metal nut Ø 22 mm available for sizes 0 and 1.

(also Ø 30 mm under request).







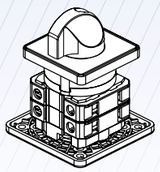
Size	Models		13
0	A1 = 28 mm	A2 = 32 mm	M
	A1 = 30 mm	A2 = 34 mm	N
	A1 = 35 mm	A2 = 38 mm	O
1	A1 = 28 mm A4 = 46 mm	A2 = 32 mm	M
	A1 = 33 mm A3 = 47 mm	A2 = 30 mm A4 = 50 mm	N
	A1 = 32 mm A3 = 45 mm	A2 = 32 mm A4 = 45 mm	P
2	A1 = 38 mm	A3 = 40 mm	M
	A1 = 30 mm	A2 = 50 mm	P

Multi-distance fixing plates with screws

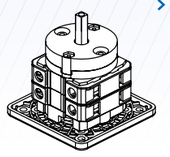
For T - TB - TF series

- Multidrill plates for different fixing distances.
- Fixing with two screws for mounting without base nor indicating plate.
- Available for sizes 0 - 1 - 2.
  (size 0 also supports multi-fixing plate size 1).

Base mounting



12 13 14 **D**



12 13 14 **G**

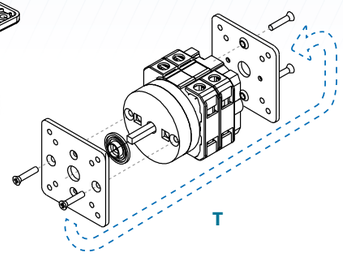
Base mounting by screws with direct handle | D type
Base mounting by screws without plate and handle | G type

For T series

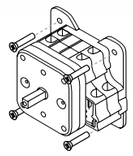
- Rear fixing plate for 4 screws, reversible mounting plate in T serie (except T175 and size 3).

For TB - TF series

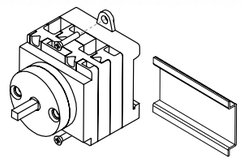
- Fixed rear support plate as standard.
- Serie TB for 4 screws.
- Serie TF for two screws (also DIN rail).



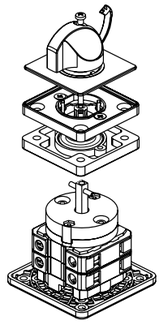
T



TB



TF

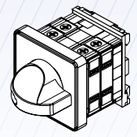


12 13 14 **F**

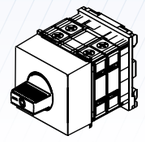
Base mounting with clutch device and door handle | F type

For T - TB - TF series

- Rear fixing plate for 4 screws in T - TB series or two screws and DIN rail in TF serie.
- With clutch device and door lock, according to series and sizes.
- The clutch device (D501) for size 0, if it is combined with other accessory, must be size 1.
- The clutch device (D501) and shaft extension are supplied separately (as accessories) or incorporated with the cam switch (size 3 is always incorporated with the cam switch).
- Specify useful depth of the space available when ordering.



12 13 14 **A**



12 13 14 15 16 **H 8 N 0**

DIN rail mounting with direct handle | A type

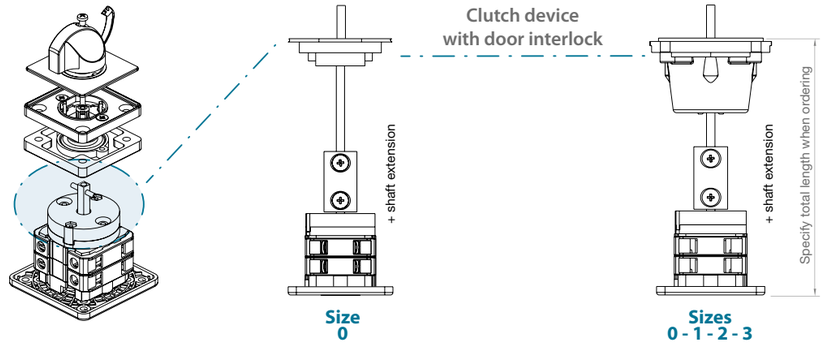
For T series

- Rear fixing support (D904) for T series sizes 0 and 1.
- DIN rail is included in TF series.

DIN rail mounting with modular handle | H type

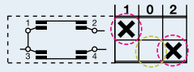
For TF series

- Rear fixing support and modular handle tape (D905) for T - TF series size 0.



TP | T | TB | TF
Standard diagrams

For many switching operations that can be resolved using cam switches, we have a number of standard schemes applicable to the most common applications in electrical installations, equipment, machinery, etc. If you do not find what you are looking for in this selection, or have a special switching requirement, you can use the blank diagrams form on the next page and send it to our sales department. The descriptive logic representing and interpreting the circuits are explained below.

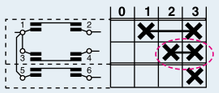


It represents "closed contact".

It represents "opened contact".

The contact 1/2 is closed in position 1 and opened in positions 0 & 2.

The contact 3/4 is closed in position 2 and opened in positions 0 & 1.

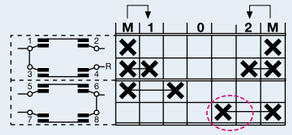


It represents closed contact "without interruption".

The contact 1/2 closes in position 1, and remains closed in position 2 & 3.

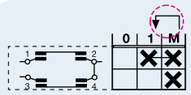
The contact 3/4 closes in position 2 and remains closed in position 3.

When passing from one position to another there is no contact interruption in any cases.



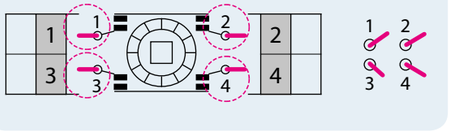
They represent "late break contact" or "early-make contact" in relation to others.

The contacts 5/6 & 7/8 close before the contacts 3/4 & 1/2 and they will also open after these contacts.

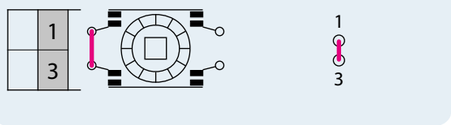


It represent "spring return" to previous position.

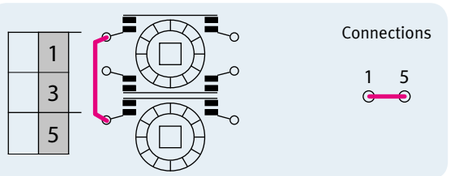
The M position is not fixed and it will return to position 1 when the handle is released.



Connection point.

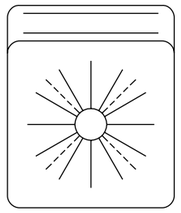


Vertical bridging link.



Horizontal bridging link.

Inscription plate
Name plate



ORDER SHEET FOR NON-STANDARD CAM SWITCHES 10 TO 315 AMP.

telergon gorlan team

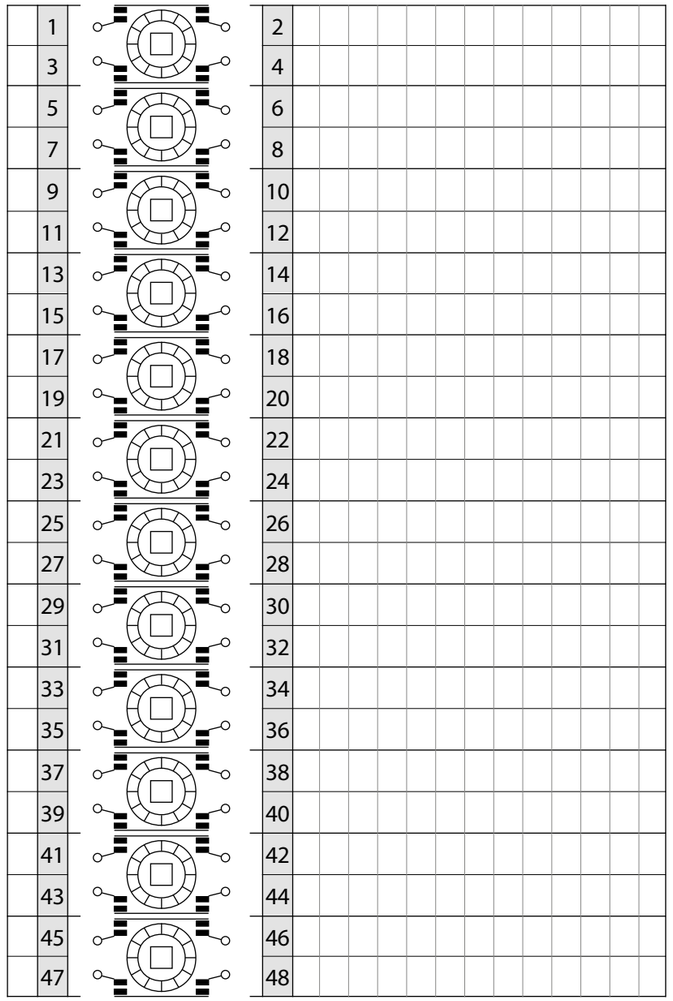
Series

Code

Contact closed
Closed contact without interruption
Late break contact
Early-make contact
Return from 30º

Rev.

Number of switch positions



Connections

1	5	9	13	17	21	25	29	33	37	41	45
3	7	11	15	19	23	27	31	35	39	43	47
46	42	38	34	30	26	22	18	14	10	6	2
48	44	40	36	32	28	24	20	16	12	8	4

T series

0	12	20				
1	16	25	32	40		
2	50	63	80	100	125	175
3	200	250	315			

TB series

20	25	32	40

TF series

12	16	25	32	40

TP series

10

Type

E | C | Z | D | G | H | F

Handle

Indicator arrow | Black
Ball lever handle | Red
Double handle | Red
Key | Yellow

Shaft extension

mm

Nameplate

Aluminium colour | Normal
Yellow colour | With inscription
Switching angle 30º -45º -60º -90º

Materials

Chambers

Notes

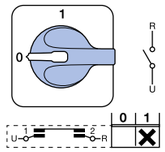
Validity

Date

Signature

Special devices

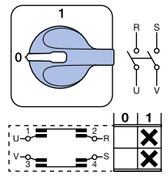
On-Off switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 0

010
1 pole
1 chamber

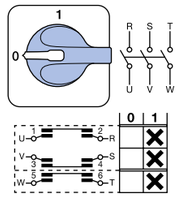
010/5	5 poles
010/6	6 poles
010/7	7 poles
010/8	8 poles
010/9	9 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 1

011
2 poles
1 chamber

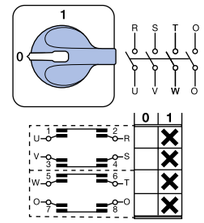
010/10	10 poles
010/11	11 poles
010/12	12 poles
010/13	13 poles
010/14	14 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 2

012
3 poles
2 chambers

010/15	15 poles
010/16	16 poles
010/17	17 poles
010/18	18 poles
010/19	19 poles



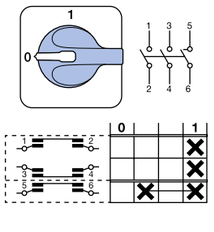
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 3

013
4 poles
2 chambers

010/20	20 poles
010/21	21 poles
010/22	22 poles
010/23	23 poles
010/24	24 poles

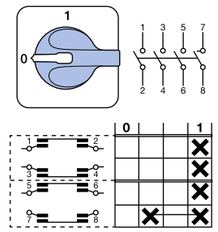
To view these wiring diagrams please visit our download area on www.telergon.com

On-Off switches with contacts leading when making



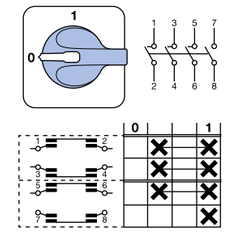
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 0

020
3 poles 1 preclosed pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 1

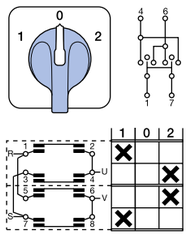
021
4 poles 1 preclosed pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 2

022
4 poles 3 preclosed poles
2 chambers

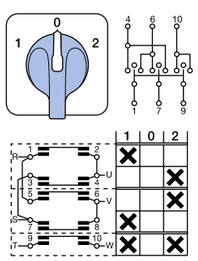
Reversing switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 0 1

101
2 poles
2 chambers

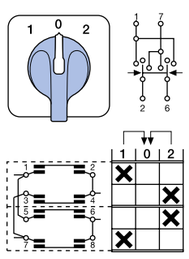
Reversing switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 0 2

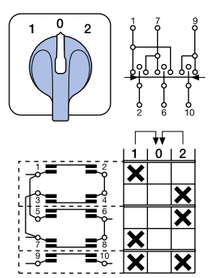
102
3 poles
3 chambers

Reversing switches with spring return



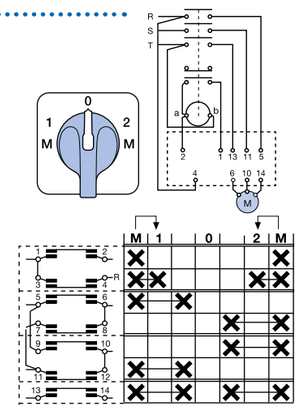
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 1

111
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 2

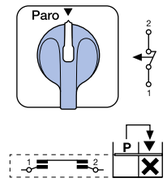
112
3 poles
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 3

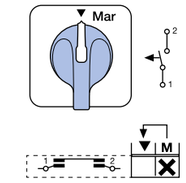
113
3 poles for use with reserving contactors
4 chambers

Control switches with spring return



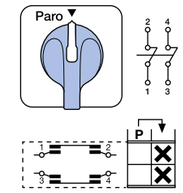
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 1

201
Start switch 1 pole
1 chamber



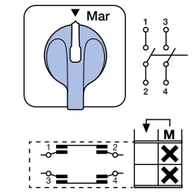
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 2

202
Stop switch 1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 3

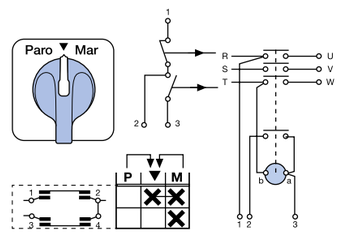
203
Start switch 2 poles
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 4

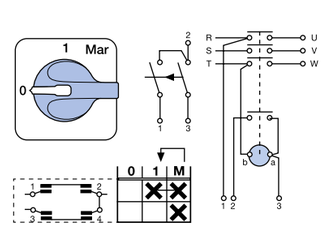
204
Stop switch 2 poles
1 chamber

Stop-Start switches



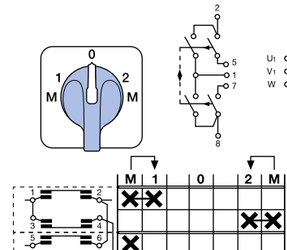
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 5

205
With contactor
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 6

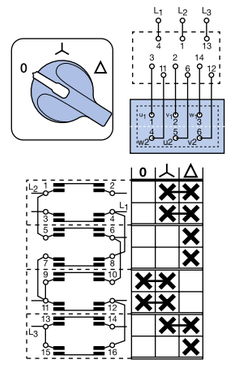
206
With contactor and spring return
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 7

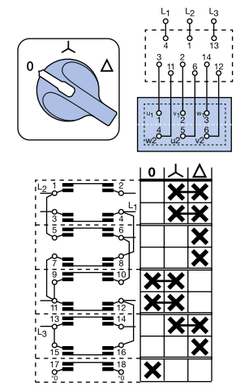
207
With spring return to run for 2 units
2 chambers

Start delta switches



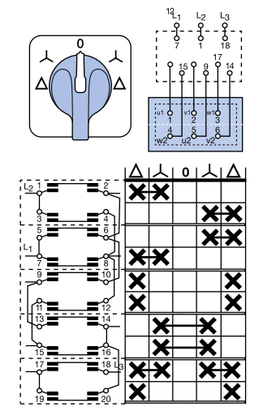
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 0

300
Normal type
4 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 1

301
Auxiliary contact closed in "0"
5 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 2

302
Reversing
5 chambers

303
Rotary
0 - λ - Δ - 0 - λ - Δ - 0
5 chambers

304
Position λ return to 0
0 - λ - Δ
4 chambers

305
Reversing. Return from λ to 0
Δ - λ - 0 - λ - Δ
5 chambers

308
Use with contactor
0 - λ - Δ
4 chambers

309
Reversing for use with contacto
Δ - λ - 0 - λ - Δ
7 chambers

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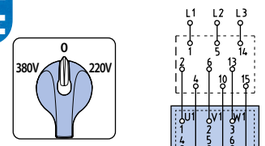
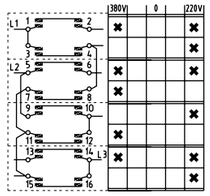
CAM SWITCH DIAGRAMS

series TP|TTB|TF

Start delta switches



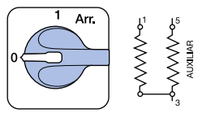


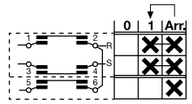
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 0

310
Selector λ - Δ
380 - 0 - 220
4 chambers

Split phase starting switches

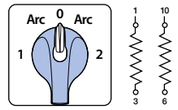


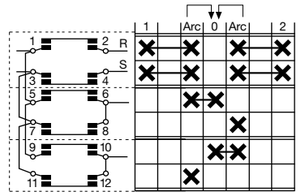


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 5

315
Start return to 1
2 chambers

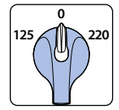


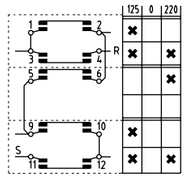


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 6

316
Reversing type of T315
1 - ARR - 0 - ARR - 2
3 chambers



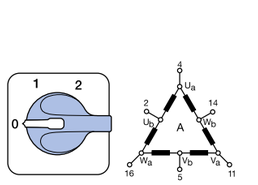


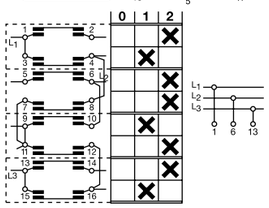
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 7

317
Start single phase 2 voltages
3 chambers

Dahlander multi-step switches

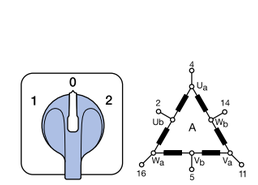


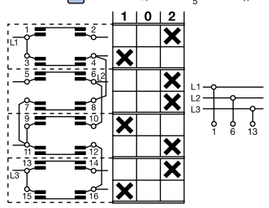


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 0

330
Dahlander 0 - Δ_A - $\lambda\,\lambda_A$
4 chambers

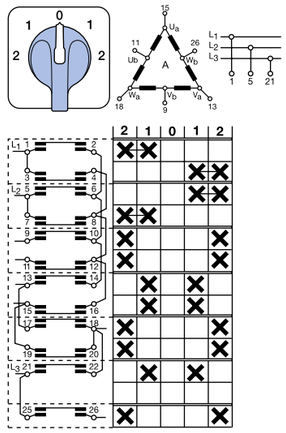




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 1

331
Dahlander Δ_A - 0 - $\lambda\,\lambda_A$
4 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 2

332
Reversing type of T330
7 chambers

333
Dahlander 0 - Δ_A - $\lambda\,\lambda_A$ - 0 - Δ_A - $\lambda\,\lambda_A$ - 0
0 - 1 - 2 - 0 - 1 - 2
5 chambers

334
For use with contactor
0 - 1 - 2
5 chambers

335
Selector Dahlander
0 - λ - Δ_A - $\lambda\,\lambda_A$
6 chambers

336
Reversing Dahlander
$\lambda\,\lambda_A$ - Δ_A - λ - 0 - λ - Δ_A - $\lambda\,\lambda_A$
2 - 1 - λ - 0 - λ - 1 - 2
8 chambers

To view these wiring diagrams please visit our download area on www.telergon.com

Separate winding to speed

340
0 - λ_A - Δ - λ_B
0 - λ - 1 - 2
6 chambers

341
0 - Δ_A - λ_B
0 - 1 - 2
4 chambers

342
0 - A - B en λ or Δ
0 - 1 - 2
3 chambers

343
Reversing del 342
2 - 1 - 0 - 1 - 2
5 chambers

344
Δ_B - λ_B - 0 - λ_A - Δ_A
1 - λ - 0 - λ - 2
8 chambers

350
0 - λ_A - Δ_B - $\lambda\,\lambda_B$
0 - 1 - 2 - 3
6 chambers

351
Reversing type of T350
3 - 2 - 1 - 0 - 1 - 2 - 3
9 chambers

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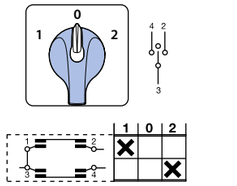
series TP|TTB|TF

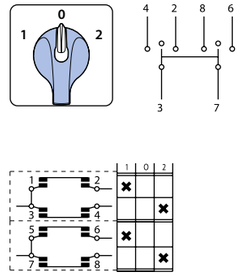
Changeover switches with center "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 0

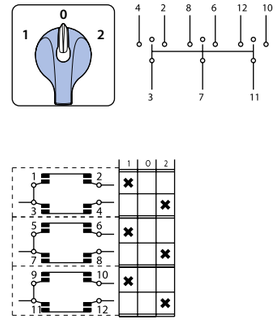
400
1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 1

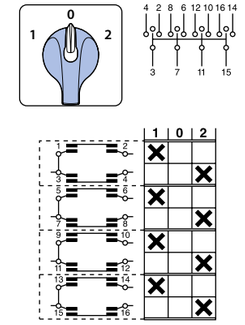
401
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 2

402
3 poles
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 3

403
4 poles
4 chambers

	Poles	Positions	Chambers
400/5	5	3	5
400/6	6	3	6

	Poles	Positions	Chambers
400/7	7	3	7
400/8	8	3	8

	Poles	Positions	Chambers
400/9	9	3	9
400/10	10	3	10

	Poles	Positions	Chambers
400/11	11	3	11
400/12	12	3	12

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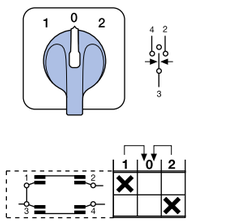
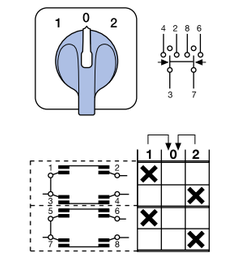
Changeover switches with spring return to center



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 5

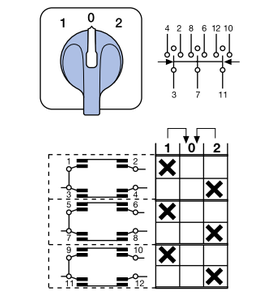
405
1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 6

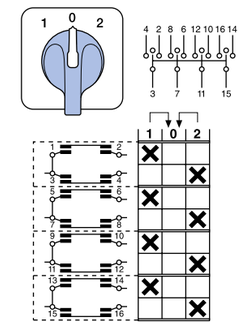
406
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 7

407
3 poles
3 chambers

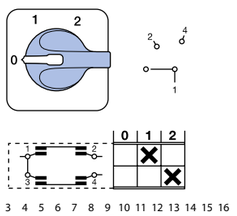


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 8

408
4 poles
4 chambers

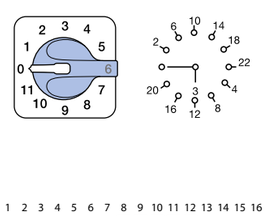
Multi-step switches with "Off" position



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 1 0

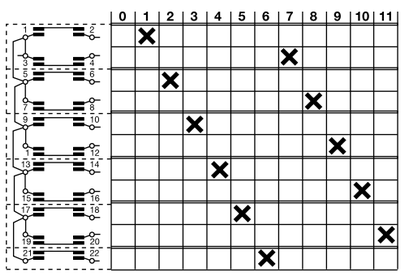
410
1 pole 2 positions
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 1 9

419
1 pole 11 positions
6 chambers



Multi-step switches with “Off” position

	Poles	Positions	Chambers
411	1	3	2
412	1	4	2
413	1	5	3
414	1	6	4
415	1	7	4
416	1	8	5
417	1	9	5
418	1	10	6
420	2	2	2
421	2	3	3

	Poles	Positions	Chambers
422	2	4	4
423	2	5	5
424	2	6	7
425	2	7	8
426	2	8	9
427	2	9	10
428	2	10	11
429	2	11	12
430	3	2	3
431	3	3	5

	Poles	Positions	Chambers
432	3	4	6
433	3	5	9
434	3	6	12
435	3	7	12
440	4	2	4
441	4	3	6
442	4	4	8
443	4	5	10
450	5	2	5
451	5	3	8

	Poles	Positions	Chambers
452	5	4	10
460	6	2	6
461	6	3	9
462	6	4	12
470	7	2	7
471	7	3	11
480	8	2	8
481	8	3	12
490	9	2	9

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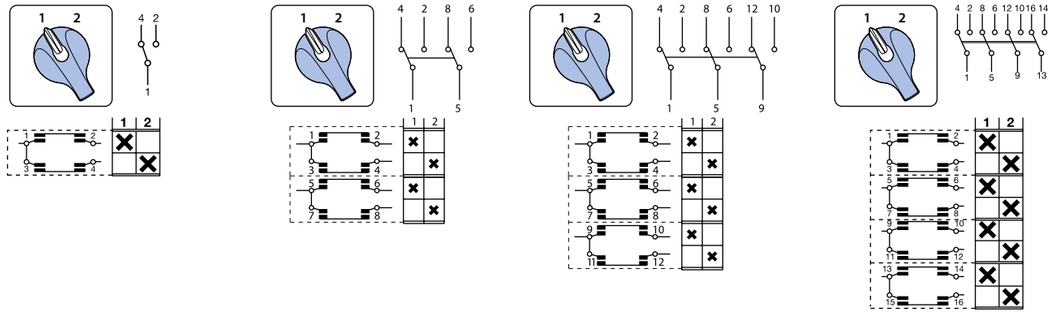
Changeover switches without “Off”



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 0

500
1 pole
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 1

501
2 poles
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 2

502
3 poles
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 3

503
4 poles
4 chambers

	Poles	Positions	Chambers
500/5	5	2	5
500/6	6	2	6

	Poles	Positions	Chambers
500/7	7	2	7
500/8	8	2	8

	Poles	Positions	Chambers
500/9	9	2	9
500/10	10	2	10

	Poles	Positions	Chambers
500/11	11	2	11
500/12	12	2	12

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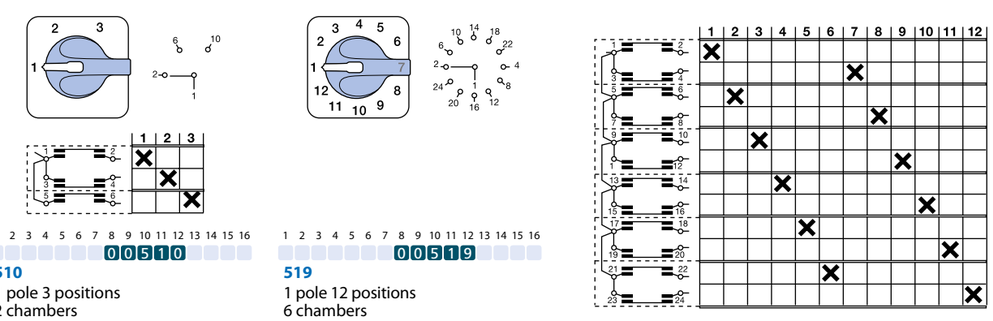
Multi-step switches without “Off” position



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 1 0

510
1 pole 3 positions
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 1 9

519
1 pole 12 positions
6 chambers

Multi-step switches without “Off” position

	Poles	Positions	Chambers
511	1	4	2
512	1	5	3
513	1	6	3
514	1	7	4
515	1	8	4
516	1	9	5
517	1	10	5
518	1	11	6
520	2	3	3

	Poles	Positions	Chambers
521	2	4	4
522	2	5	5
523	2	6	6
524	2	7	7
525	2	8	8
526	2	9	9
527	2	10	10
528	2	11	11
529	2	12	12

	Poles	Positions	Chambers
530	3	3	5
531	3	4	6
532	3	5	8
533	3	6	9
534	3	7	11
535	3	8	12
540	4	3	6
541	4	4	8
542	4	5	10

	Poles	Positions	Chambers
543	4	6	12
550	5	3	8
551	5	4	10
552	5	5	13
560	6	3	9
561	6	4	12
570	7	3	11
580	8	3	12

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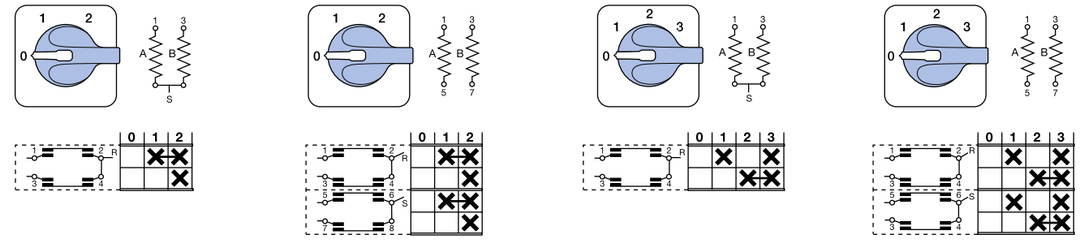
Gang switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 1

601
1 pole switching sequence
0 - A - (A+B)
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 2

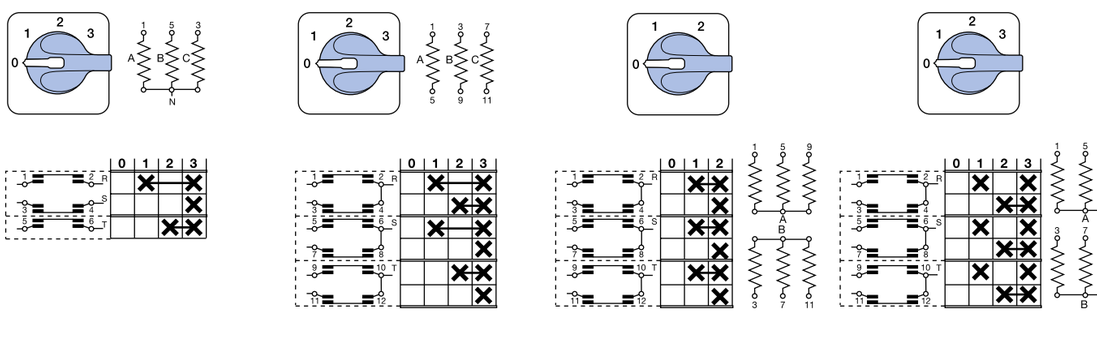
602
2 poles switching sequence
0 - A - (A+B)
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 3

603
1 pole switching sequence
0 - A - B - (A+B)
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 4

604
2 poles switching sequence
0 - A - B - (A+B)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 5

605
1 pole switching sequence
0 - A - (A+B) - (A+B+C)
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 6

606
2 poles switching sequence
0 - A - (A+B)-(A+B+C)
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 7

607
3 poles switching sequence
0 - A - (A+B)
3 chambers

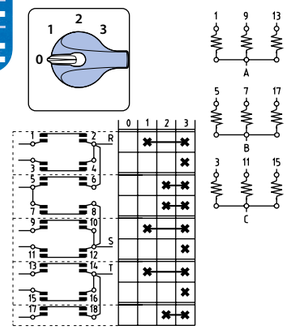
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 8

608
3 poles switching sequence
0 - A - B - (A + B)
3 chambers

CAM SWITCH DIAGRAMS

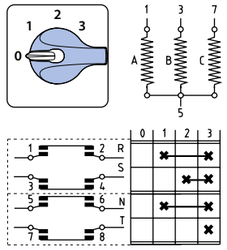
series TP|T|TB|TF

Gang switches



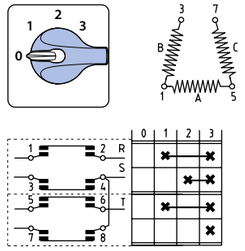
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 9

609
3 poles switching sequence
0 - A - (A+B) - (A+B+C)
5 chambers



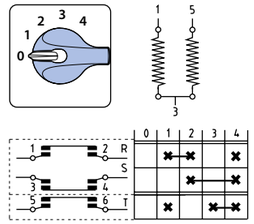
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 0

610
Switching sequence
λ 0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 1

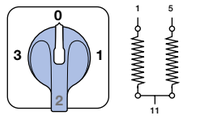
611
Switching sequence
Δ 0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 2

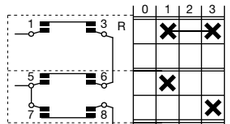
612
Switching sequence 0 - A + B series
A - B - (A + B) paralell
2 chambers

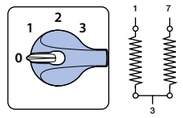
Kitchen and heating switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 3

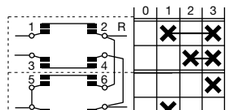
613
3 positions switching sequence
0-A+B paralell; A or B-A+B series -0
3 chambers



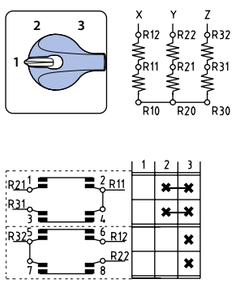


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 4

614
3 positions switching sequence
0-A+B series; A or B-A+B paralell
2 chambers

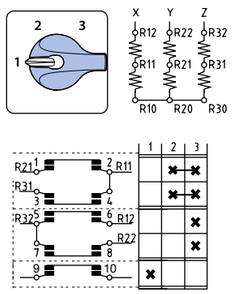


Resistance elimination switches



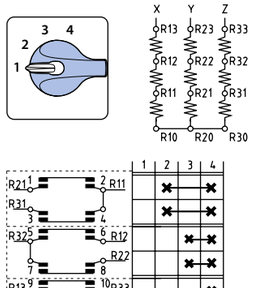
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 0

620
3 phases, 3 points
2 chambers



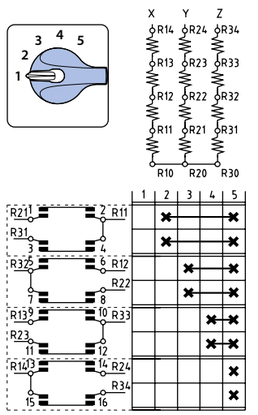
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 1

621
3 phases, 3 points
3 chambers
With auxiliary contact



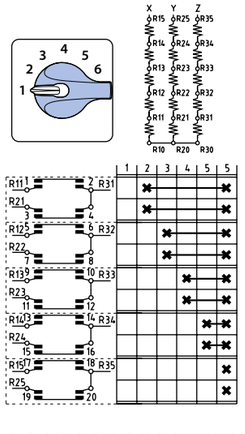
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 2

622
3 phases, 4 points
3 chambers



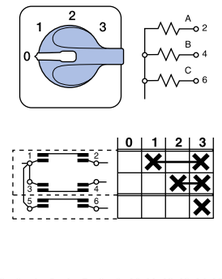
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 4

624
3 phases, 5 points
4 chambers



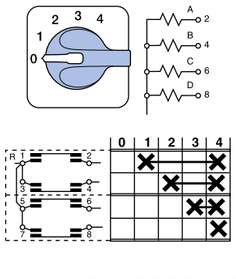
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 6

626
3 phases, 6 points
5 chambers



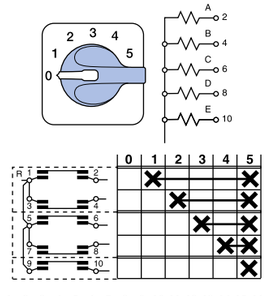
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 0

630
Switching sequence
0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 1

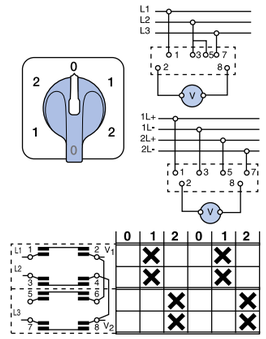
631
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 2

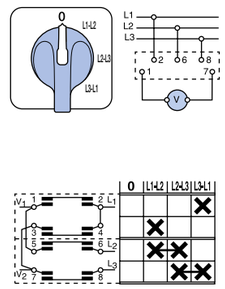
632
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D) - (A+B+C+D+E)
3 chambers

Voltmeter switches



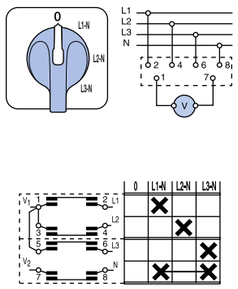
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 0

700
2 phases C.A. or 2 poles C.C.
2 chambers



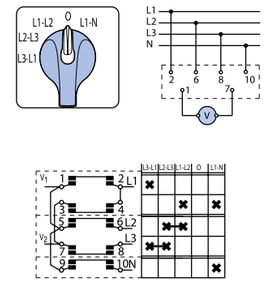
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 1

701
3 phases
2 chambers



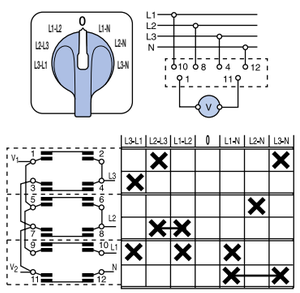
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 2

702
3 phases to neutral
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 4

704
3 phases and 1 phase to neutral
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 5

705
3 phases to phase and 3 phases to neutral
3 chambers

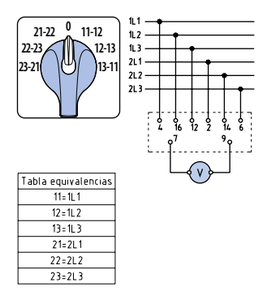
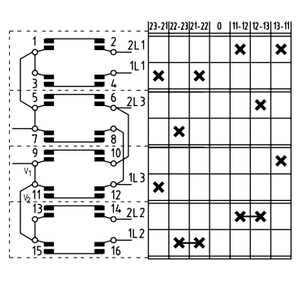


Tabla equivalencias
11=1L1
12=1L2
13=1L3
21=2L1
22=2L2
23=2L3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 6

706
2 three-phase lines (phase to phase)
4 chambers/chambers



703
4 lines with 2 wires C.A. o C.C.
4 chambers

708
3 phases, 2 potencial transformers
1 pole
2 chambers

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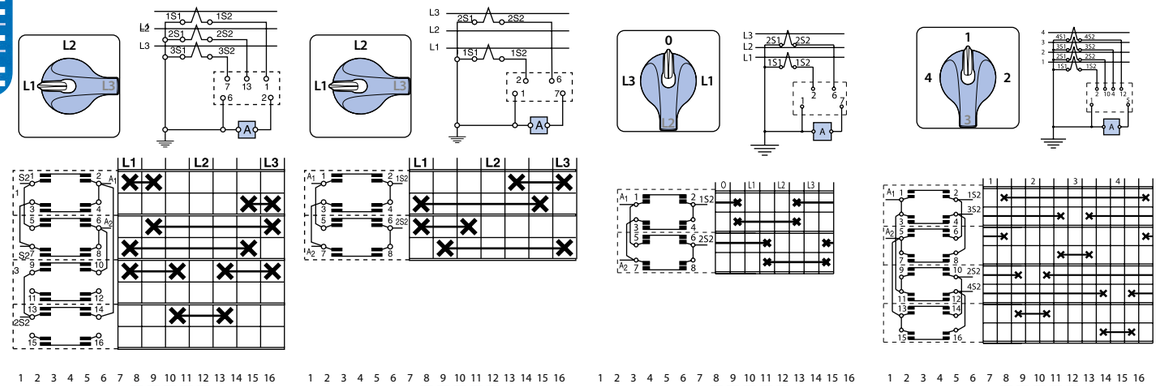
CAM SWITCH DIAGRAMS

series TP|TTB|TF

Ammeter switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 0

720*
3 phases, 3 current transformers,
1 pole
4 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 1

721
3 phases, 2 current transformers,
1 pole
2 chambers

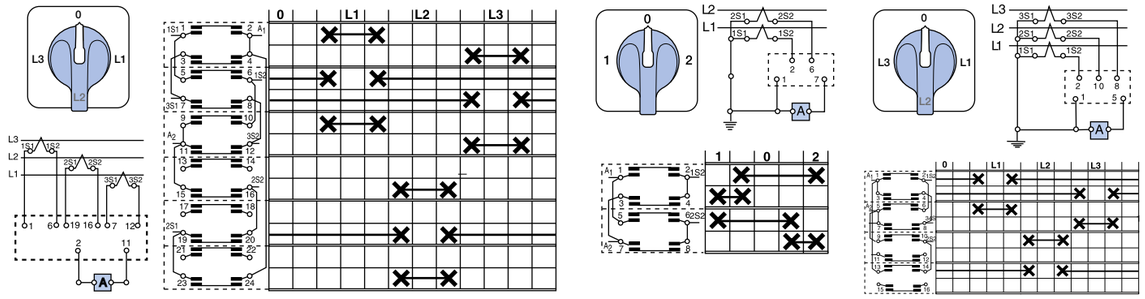
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 4

724
3 phases, 2 current transformers,
1 pole
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 5

725
4 lines, 4 current transformers,
1 pole
4 chambers

* New diagram 732



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 7

727
3 lines, 3 current transformers,
2 poles
6 chambers

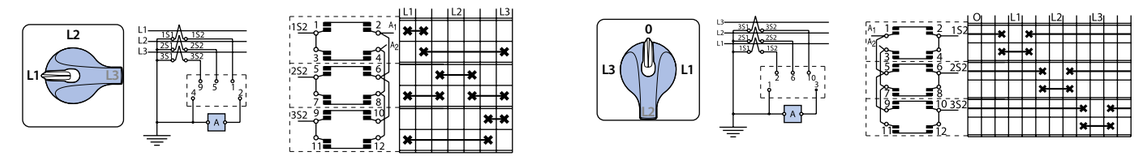
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 0

730
2 current transformers,
1 pole
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 1

731*
3 current transformers,
1 pole
4 chambers

* New diagram 733



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 2

732
3 phases, 3 current transformers,
1 pole
3 chambers

722
3 phases, 2 or 3 current transformers,
1 pole
5 chambers

726
2 lines, 2 current transformers,
2 poles
3 chambers

723
2 lines, 2 current transformers,
1 pole
3 chambers

728
4 lines, 4 current transformers,
2 poles
6 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 3

733
3 lines, 3 current transformers,
1 pole
3 chambers

729
1 current transformers,
1 pole
1 chamber

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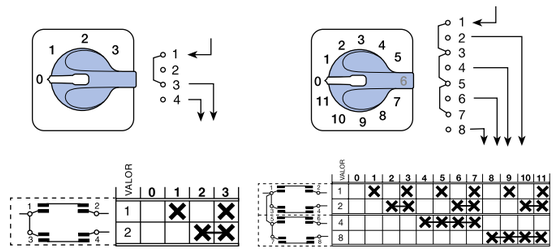
Switches for B.C.D. codification with "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 B C D 3

0BCD3
3 positions
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 B C 1 1

0BCD11
11 positions
2 chambers

0BCD4
4 positions
2 chambers

0BCD5
5 positions
2 chambers

0BCD6
6 positions
2 chambers

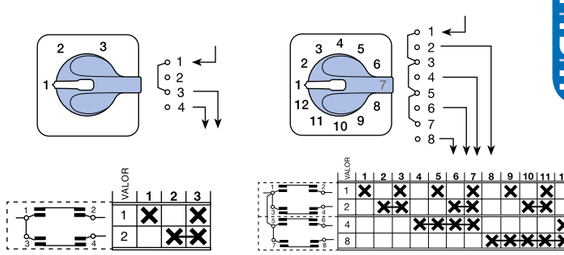
0BCD7
7 positions
2 chambers

0BCD8
8 positions
2 chambers

0BCD9
9 positions
2 chambers

0BCD10
10 positions
2 chambers

Switches for B.C.D. codification without "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1 B C 0 3

1BCD3
3 positions
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1 B C 1 2

1BCD12
12 positions
2 chambers

1BCD4
4 positions
2 chambers

1BCD5
5 positions
2 chambers

1BCD6
6 positions
2 chambers

1BCD7
7 positions
2 chambers

1BCD8
8 positions
2 chambers

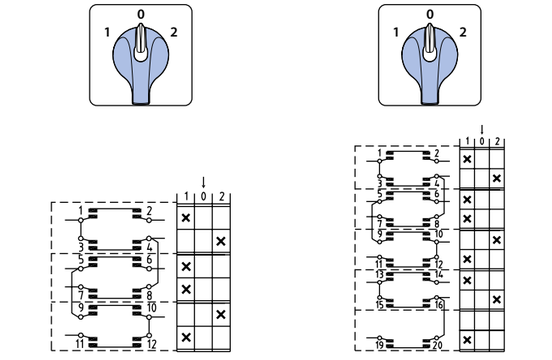
1BCD9
9 positions
2 chambers

1BCD10
10 positions
2 chambers

1BCD11
11 positions
2 chambers

To view these wiring diagrams please visit our download area on www.telergon.com

By-pass switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 0

800
2 poles
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 1

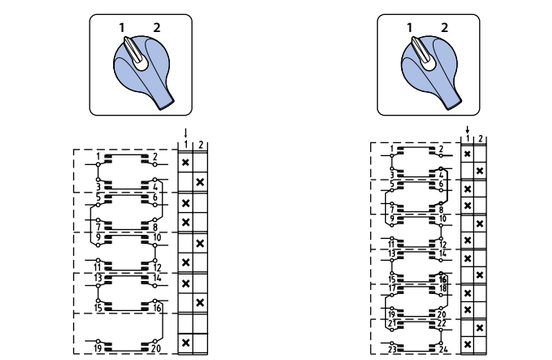
801
3 poles
5 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 2

802
3 poles + N
6 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 0

820
2 poles
3 chambers

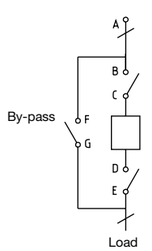


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 1

821
3 poles
5 chambers

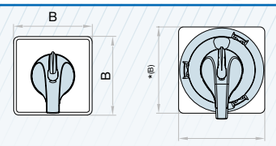
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 2

822
3 poles + N
6 chambers

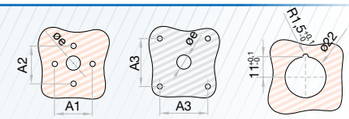


A	L1	L2	L3	N
B	1	5	13	17
C	2	6	14	18
D	7	11	19	23
E	4	10	16	22
F	1	5	13	17
G	4	10	16	22

T Door mounting E



Door mounting drilling



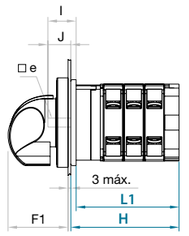
2 screws only | 4 screws | Frontal fixing Ø22

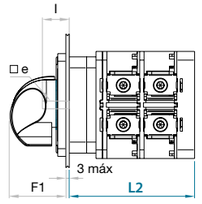
Note:

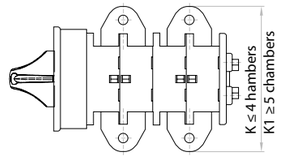
The cam switches allow a construction up to 12 chambers (24 contacts).

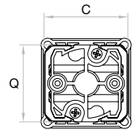
It's necessary to distribute in several columns (maximum three of 12 chambers each) when the number of contacts is higher than 24, so we use the tandem drives D200 or D201.

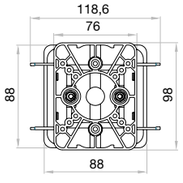
Depending on the number of contacts to be switched simultaneously, it's possible to supply up to 14 chambers switches in size 0.

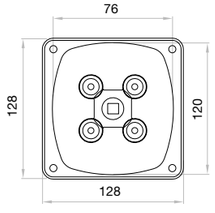








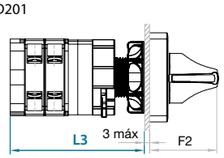


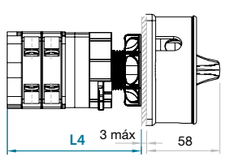


Size	Series	A1	øA1	A2	øA2	A3	øA3	B	C	øe	□e	Q	F1	I	J	K	K1
0	T12 T20	32	4,5	-	4,5	36	4,5	50	46,5	12	5	46	33,5	18	15	-	-
1	T16 25 T32 T40	45	4,5	-	4,5	48	4,5	65	60,5	12	5	57,5 64,5	36	20	16,8	-	-
2	T50 T63 T80	-	-	60	5,5	68	5,5	94	66	12	7	80	45	24,5	20,5	-	-
	T100 T125								84,5			89					
	T175	-	-	60	5,5	68	5,5	94	-	12	7	-	45	24,5	-	-	-
3	T200 T250 T315	-	-	-	-	108	6,5	128	76	16	10	120	67	-	40	150	-
	T400 T500															176	-
	T630 T800															218	256

Size	Series		Chambers 1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□	13□	14□
0	T12 T20	L1	34,5	46	57,5	69	80,5	92	103,5	115	126,5	138	149,5	161	172,5	184
		H	37,5	49	60,5	72	83,5	95	106,5	118	129,5	141	152,5	164	175,5	187
1	T16 T25	L1	46,4	60,6	74,8	89	103,2	117,4	131,6	145,8	160	174,2	188,4	202,6	*(1)	*(1)
		H	49,6	63,8	78	92,2	106,4	120,6	134,8	149	163,2	177,4	191,6	205,8	*(1)	*(1)
	T32 T40	L1	49,8	67,3	84,8	102,3	119,8	137,3	154,8	172,3	189,8	207,3	224,8	242,3	*(1)	*(1)
		H	53	70,5	88	105,5	123	140,5	158	175,5	193	210,5	228	245,5	*(1)	*(1)
2	T50 T63 T80	L1	58,5	78,5	98,5	118,5	138,5	158,5	178,5	198,5	218,5	238,5	258,5	278,5	*(1)	*(1)
		H	62,5	82,5	102,5	122,5	142,5	162,5	182,5	202,5	222,5	242,5	262,5	282,5	*(1)	*(1)
	T100 T125	L1	67	94	121	147,5	174	201	227,5	254	281	307,5	334	361	*(1)	*(1)
		L2	71	98	125	151,5	178	205	231,5	258	285	311,5	338	365	*(1)	*(1)
	T175	L2	80,8	114,8	148,8	182,8	216,8	250,8	284,8	318,8	352,8	386,8	420,8	454,8	*(1)	*(1)
3	T200 T250 T315	H	95	135	175	215	255	295	335	375	415	455	495	535	*(1)	*(1)
	T400 T500	H	135	215	295	375	455	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)
	T630	H	175	295	415	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)
	T800	H	215	375	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)

*(1) Tandem drive D200/D201

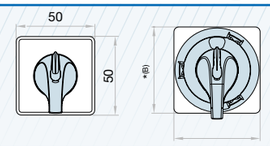




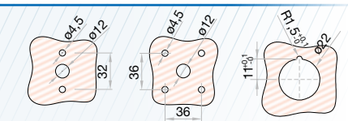
Size	Series		Chambers *(ch) 1□	2□	3□	4□	5□	6□	F2
0	T12 T20	L3	63,5	75	86,5	98	109,5	121	53,5
1	T16 T25	L4	75,5	89,5	103,8	118	-	-	55,5
	T32 T40	L4	78,8	96,3	116,8	131,3	-	-	55,5

*(ch) Central quick fixing ø22 - maximun number of chambers supported.

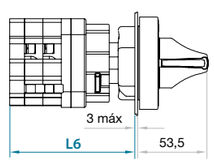
TB Door mounting E

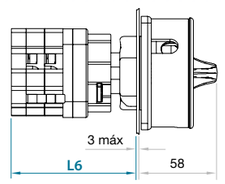


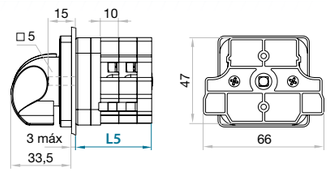
Door mounting drilling



2 screws | 4 screws | Frontal fixing Ø22

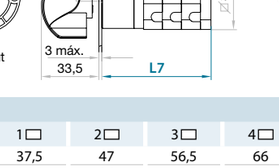




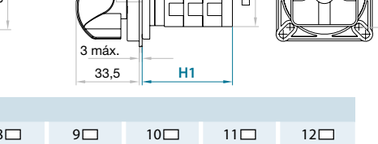


	Chambers 1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L5	31,5	41,5	51,5	61,5	71,5	81,5	91,5	101,5	111,5	121,5	131,5	141,5
L6	60,5	70,5	80,5	90,5	100,5	110,5	-	-	-	-	-	-

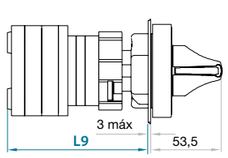
TF Door mounting E

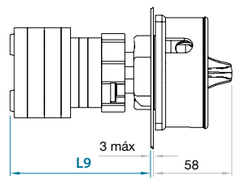


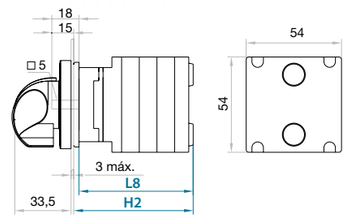
Door mounting drilling



2 screws | 4 screws | Frontal fixing Ø22





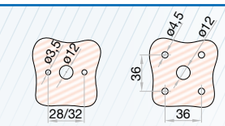


	Chambers 1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L8	45	55	65	75	85	95	105	115	125	135	145	155
L9	73,5	83,5	93,5	103,5	113,5	123,5	-	-	-	-	-	-
H2	48	58	68	78	88	98	108	118	128	138	148	158

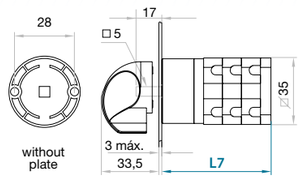
TP Door mounting E

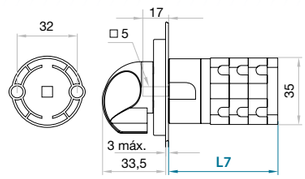


Door mounting drilling



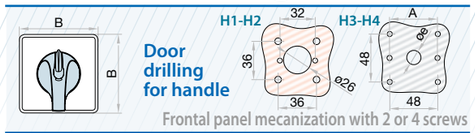
2 screws | 4 screws

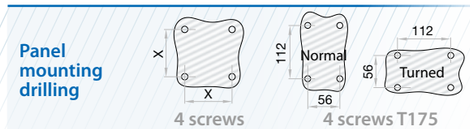


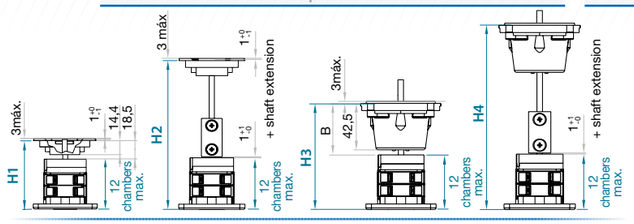


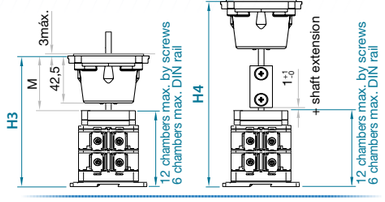
	Chambers 1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L7	37,5	47	56,5	66	75,5	85	94,5	104	113,5	123	132,5	142
H1	26,5	36	45,5	55	64,5	74	83,5	93	102,5	112	121,5	131

T Base mounting with clutch device F



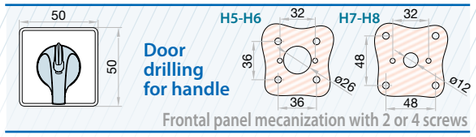


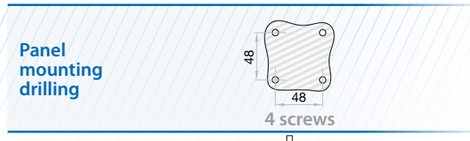


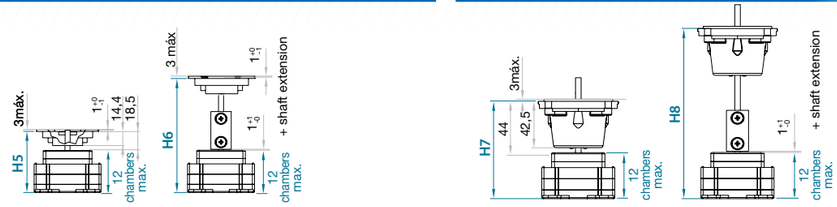


Size	Series		Chambers H1 1□	H1 +□	H2 1□	H2 +□	H3 1□	H3 +□	H4 1□	H4 +□	A	B	øe	M	X
0	T12 T20	min	56	+11,5	94	+11,5	83	+11,5	121	+11,5	32	50	12	45,5	36
		max			256				283						
1	T16 T25	min	-	-	-	-	97,1	+14,2	135,1	+14,2	32	65	12	47,5	48
		max							297,1						
	T32 T40	min	-	-	-	-	100,5	+17,5	138,5	+17,5	32	65	12	47,5	48
		max							300,5						
2	T50 T63 T80	min	-	-	-	-	114,5	+20	152,5	+20	60	94	12	52	68
		max							314,5						
	T100 T125	min	-	-	-	-	123	+27	161	+27	60	94	12	52	68
		max							323						
	T175	min	-	-	-	-	141,8	+34	179,8	+34	60	94	12	52	-
		max	-	-	-	-			341,8						
3	T200		-	-	-	-	162,5	+40	-	-	-	48	16	67,5	108

TB Base mounting with clutch device F

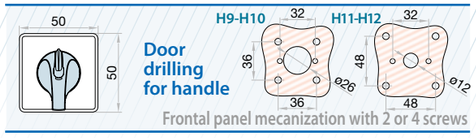




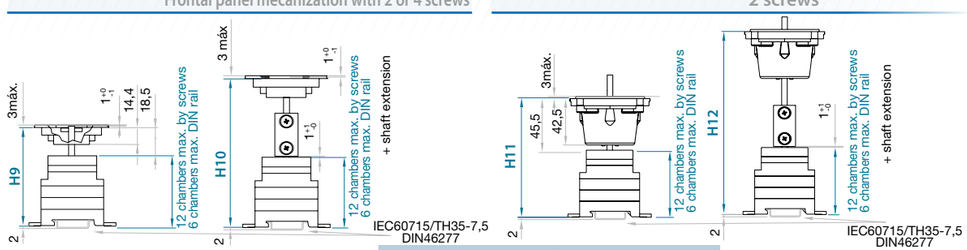


Size	Series		Chambers H5 1□	H5 +□	H6 1□	H6 +□	H7 1□	H7 +□	H8 1□	H8 +□
0	TB20 TB25 TB32	min	46	+10	84	+10	75,5	+10	113	+10
		max			246				275,5	

TF Base mounting with clutch device F

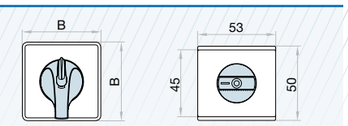


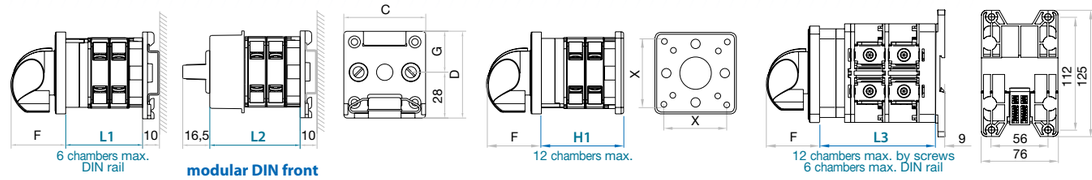




Size	Series		Chambers H9 1□	H9 +□	H10 1□	H10 +□	H11 1□	H11 +□	H12 1□	H12 +□
0	TF12 TF16 TF25	min	65,5	+10	103,5	+10	92,5	+10	130,5	+10
		max			265,5				292,5	

T Base mounting with screws or DIN rail (direct handle) D

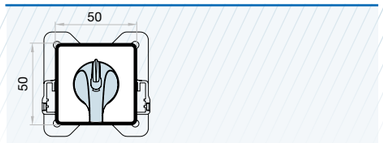


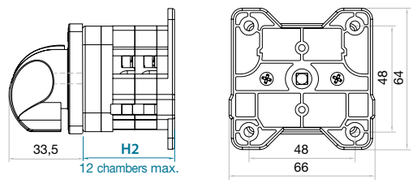


Size	Series		Chambers 1□	2□	3□	4□	5□	6□	+□	B	C	D	F	G	X
0	T12 T20	L1	34,5	46	57,5	69	80,5	92	+11,5	50	50	53	33,5	25	-
		L2	-	53,5	65	76,5*(1)	-	-		-	50	53	-	25	-
		H1	37,5	49	60,5	72	83,5	95		50	-	-	33,5	-	36
1	T16 T25	L1	46,4	60,6	74,8	89	-	-	+14,2	65	50	53	36	25	-
		H1	49,6	63,8	78	92,2	106,4	120,6		65	-	-	36	-	48
	T32 T40	L1	49,8	67,3	84,8	102,3	-	-	+17,5	65	-	-	36	-	-
		H1	53	70,5	88	105,5	123	140,5		65	-	-	36	-	48
2	T50 T63 T80	H1	62,5	82,5	102,5	122,5	142,5	162,5	+20	94	-	-	45,5	-	68
	T100 T125	H1	71	98	125	152	179	206	+27	94	-	-	45,5	-	68
	T175	L3	80,8	114,8	148,8	-	-	-	+34	94	-	-	45,5	-	-
3	T200	H1	95	135	175	215	255	295	+40	132	-	-	67	-	108

*(1) Modular enclosure 3 chambers max

TB Base mounting with screws (direct handle) D

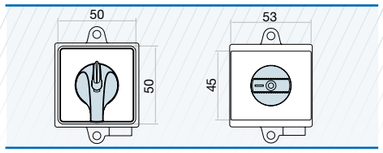


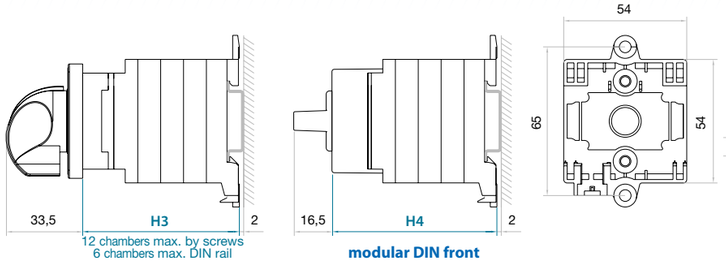


	Chambers 1□	2□	3□	4□	+□
H2	31,5	41,5	51,5	61,5*(2)	+10

*(2) Modular enclosure 3 chambers max

TF Base mounting with screws or DIN rail (direct handle) D





	Chambers 1□	2□	3□	4□	5□	6□	+□
H3	50	60	70	80	90	100	+10
H4	52,5	62,5	72,5	82,5*(3)	92,5*(3)	-	-

*(3) Modular enclosure 3 chambers max

Technical specifications

According to IEC 60947-3				Size 0		Size 1				Size 2						Size 3								
				T12	T20	T16	T25	T32	T40	T50	T63	T80	T100	T125	T175	T200	T250	T315	T400	T630	T800	T1250	T1600
Rated thermal current	Ith		A	16	25	25	32	40	50	63	80	80	125	125	200	200	250	315	400	630	800	1000	1600
Rated insulation voltage	Ui		V	500	500	690	690	690	690	690	690	690	690	690	1000	690	690	690	690	690	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		Ue																					
AC rated operational current	Ie	Ue 415V	AC21A	A	16	25	25	32	40	50	63	80	80	125	125	200	200	250	315	315	315	400	500	500
		Ue 415V	AC22A	A	16	20	25	32	40	50	63	80	80	115	115	200	200	250	315	250	315	315	315	400
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	4	4	5,5	7,5	11	15	18,5	22	22	30	30	55	55	67	75	55	55	55	55	55
		3x240V	AC3	kW	3	4	5,5	5,5	7,5	11	15	18,5	18,5	30	30	37	45	54	61	45	45	45	45	45
		3x240V	AC4	kW	1,1	1,5	2,2	3	4	4	5,5	7,5	7,5	11	11	15	15	18	20	15	15	15	15	15
		1x240V	AC3	kW	1,5	2,2	3	4	5,5	5,5	7,5	11	11	15	15	18,5	22	22	22	22	22	22	22	22
		1x240V	AC4	kW	0,37	0,55	0,75	1,1	1,5	2,2	3	3	3	4	4	5,5	7,5	9	10	7,5	7,5	7,5	7,5	7,5
		3x415V	AC23A	kW	5,5	7,5	11	11	15	18,5	30	37	37	45	45	90	90	115	130	90	90	90	90	90
		3x415V	AC3	kW	4	5,5	7,5	7,5	11	15	22	30	30	37	37	75	75	95	108	75	75	75	75	75
		3x415V	AC4	kW	2,2	3	4	5,5	5,5	7,5	11	11	11	15	15	18,5	22	28	31	22	22	22	22	22
		1x400V	AC3	kW	2,2	3	4	5,5	7,5	7,5	15	18,5	18,5	18,5	18,5	20	37	47	53	37	37	37	37	37
		1x400V	AC4	kW	0,75	1,1	1,5	1,5	2,2	3	4	5,5	5,5	7,5	7,5	11	11	14	16	11	11	11	11	11
Rated conditional short-circuit current			kA	10	10	10	10	10	10	15	15	15	15	15	15*(3)	25	15	15	15	10	10	10	10
Rated maximum current	gL-gG		A	25	25	32	32	50	50	80	80	80	125	125	160	200	250	315	400	630	800	1000	2x800
Rated breaking capacity	400V; cos φ=0,45		A	80	100	160	200	256	320	504	504	504	640	640	1600	1450	2000	2240	1450	1450	1450	1450	1450
Rated short-time withstand current (1 sec)			A	240	400	500	650	725	800	1600	1600	1600	2500	2500	3500	4400	4400	4400	6000	7000	7600	8000	8200
Mechanical durability (thousand of operations)				1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	-	-	-	-	-	-	-	-	-	-
Mechanical durability (number of operations)				-	-	-	-	-	-	-	-	-	-	-	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000
Maximum connection capacity																								
Rigid copper conductor			mm^2	2x4	2x4	2x6	2x6	2x10	2x10	16/25*(2)	16/25*(2)	16/25*(2)	35/50*(2)	35/50*(2)	95	95	120	185	-	-	-	-	-
Flexible copper conductors			mm^2	2x2,5	2x2,5	2x4	2x4	2x6	2x6	10/16*(2)	10/16*(2)	10/16*(2)	16/35*(2)	16/35*(2)	95	95	120	185	-	-	-	-	-

According to UL 60947-4-1 CAN / CSA C22.2 Nº 14			Size 0		Size 1				Size 2						Size 3							
			T12	T20	T16	T25	T32	T40	T50	T63	T80	T100	T125	T175	T200	T250	T315	T400	T630	T800	T1250	T1600
Rated thermal current	Ith	A	12	20	16	25	32	40	63	63	63	100	100	200	200	200	200	-	-	-	-	-
General use rating		A	12	20	16	25	32	40	63	63	63	100	100	200	200	200	200	-	-	-	-	-
		Vac	300	300	600	600	600	600	600	600	600	600	600	600	600	600	600	-	-	-	-	-
AC rated operational power	3x240V	HP	2	5	5	7,5	10	15	20	20	20	30	30	25	60	60	60	-	-	-	-	-
	3x480V	HP	-	-	10	15	20	25	40	40	40	50	50	60	75	75	75	-	-	-	-	-
	3x600V	HP	-	-	10	15	20	25	40	40	40	50	50	50	60	60	60	-	-	-	-	-

*(1) 500V size "0" *(2) With extension terminals *(3) With phase barriers

Normal service conditions*

- Ambient air temperature (ºC): -5º...+40º.
- Maximum altitude: 2.000 m.
- Maximum humidity: 90%.
- Pollution degree: 3 (standard for industrial applications).
- Rated frecuency at AC utilization categories: 50/60 Hz.

Approvals T:

- Rated duties at utilization categories AC21A, AC22A y AC23A: Continuing (8 hours); uninterrupted.
- Rated duties at utilization categories AC3 and AC4: Intermittent; temporary
- Switching direct currents: For L/R<50msg, rated operational current (Ie) can be dealt with up to 30Vdc. With higher voltages, several contacts have to be connected in series.

* Please consult for other service conditions.

According to IEC 60947-3				Size 0					
				TB20	TB25	TB32	TF12	TF16	TF25
Rated thermal current	Ith		A	20	25	32	20	25	32
Rated insulation voltage	Ui		V	500	500	500	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	6
		Ue							
AC rated operational current	Ie	Ue 415V	AC21A	A	20	25	32	20	25	32
		Ue 415V	AC22A	A	20	25	32	20	25	32
		Ue 415V	AC23A	A	20	25	32	-	-	-
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	5,4	6,7	8,6	4	5,5	7,5
		3x240V	AC3	kW	3,7	4,6	5,9	4	5,5	5,5
		3x240V	AC4	kW	2,9	3,7	4,6	1,5	2,2	3
		1x240V	AC3	kW	2,1	2,7	4	2,2	3	4
		1x240V	AC4	kW	1	1,25	1,5	0,55	0,75	1,1
		3x415V	AC23A	kW	9,3	11,7	15	7,5	11	11
		3x415V	AC3	kW	6,4	8	10,3	5,5	7,5	7,5
		3x415V	AC4	kW	3,1	3,8	5,5	3	4	5,5
		1x400V	AC3	kW	3,6	4,5	5,7	3	4	5,5
		1x400V	AC4	kW	1,7	2,2	3	1,1	1,5	1,5
Rated conditional short-circuit current			kA	5	5	5	5	5	5
Rated maximum current	gL-gG		A	35	35	35	20	25	32
Rated breaking capacity	400V; cos φ=0,45		A	160	200	256	100	160	200
Rated short-time withstand current (1 sec)			A	240	400	500	350	400	500
Mechanical durability (thousand of operations)				1000	1000	1000	1000	1000	1000
Maximum connection capacity									
Rigid copper conductor			mm^2	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductors			mm^2	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6

Approvals TB:

According to UL 60947-4-1 - CAN / CSA C22.2 Nº 14			Size 0					
						TF12	TF16	TF25
Rated thermal current	Ith	A	-	-	-	16	20	25
General use rating		A	-	-	-	16	20	25
		Vac	-	-	-	600	600	600
AC rated operational power	3x240V	HP	-	-	-	2	5	7,5
	3x480V	HP	-	-	-	5	10	12
	3x600V	HP	-	-	-	5	10	15

Approvals TF:

According to IEC 60947-3 -5 / IEC 60947-5					Size 0
					TP10
Rated thermal current	Ith			A	12
Rated insulation voltage	Ui			V	500
Rated impulse withstand voltage	Uimp			kV	4
		Ue			
AC rated operational current	Ie	Ue 415V	AC13A	A	10
		Ue 415V	AC15	A	
		Ue 415V	AC21A	A	12
		Ue 415V	AC22A	A	12
		Ue 415V	AC23A	A	10
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	3
		3x240V	AC3	kW	2,2
		3x415V	AC23A	kW	4,6
		3x415V	AC3	kW	4
Rated conditional short-circuit current				kA	5
Rated maximum current	gL-gG			A	16
Rated breaking capacity	400V; cos φ=0,45			A	80
Rated short-time withstand current (1 sec)				A	100
Mechanical durability (thousand of operations)					2000
Maximum connection capacity					
Rigid copper conductor				mm^2	2x4
Flexible copper conductors				mm^2	2x2,5

Approvals TP:

14 15 16 **D100** 4



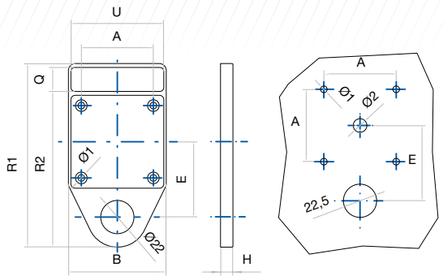
Light with white neon lamp
D100

14 15 16 **D101** 5



Light with white neon lamp and inscription plate
D101

D101 Inscription plate included with text as requested.



Supply	Size	For series	Code D100	Code D101
Spare or incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-10011	DT-10111
	2	T50-T63-T100-T175	DT-10021	DT-10121
	3	T200	DT-10031	DT-10131

Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

13 14 15 16 **D201** E

13 14 15 16 **D301** G

13 14 15 16 **D200** D

13 14 15 16 **D300** F



Tandem drive operation*
D200 with two colums
D201 with three colums

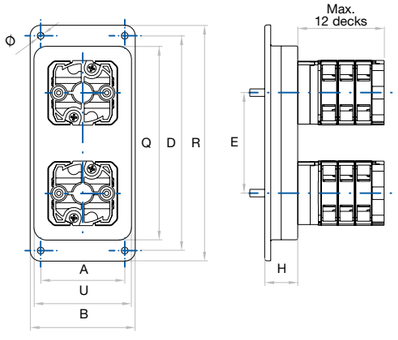
Blocking operation*
D300 with two colums
D301 with three colums

D200-201 Operation with one handle only and up to 48 contacts in two columns, or 72 contacts in three columns according to the electrical diagram.

D300-301 For switching up to 29 positions with two handles and two columns, or 36 positions with three handles and three columns according to the electrical diagram.

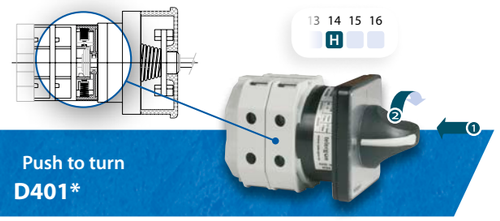
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63-T100
	3	T175- T200

* T Series (without IP20 protections).



Series	Tandem	Blocking	A	B	D	R	U	Q	E	H Tandem	H Blocking	Ø
T12 T20 T16 T25 T32 T40 TF12 TF16 TF25	D200 D201	D300 D301	56	70	143 210	157 224	64	128 195	67	22	22	4,5
T50 T63 T100	D200 D201	D300 D301	90	110	210 306	230 326	95	191 288	97	15	21	6,5
T175 T200	D200 D201	D300 D301	152	173	290 426	310 447	132	270 407	139	19	25	

13 14 15 16 **H**



Push to turn
D401*

Before operating the handle must be pressed to unlock, simultaneously an auxiliary contact it is open or closed (e.g. for switching without load).

Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20-TB20-TB25-TB32
	1	T16-T25-T32-T40

* for arrow handle with indicator, other combinations with special scheme

13 14 15 16 **3**

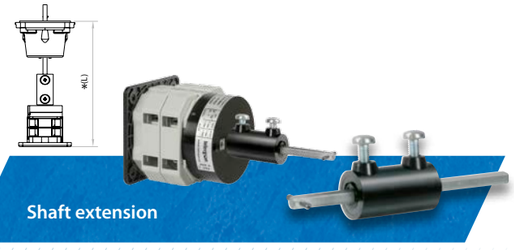


Locking voltage device
D420

The screw position, left or right, prevents the rotation of the handle.

This device always includes a mounting plate size 1.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40



Shaft extension

To extend the shaft length to the depth required.

To be complemented with the corresponding D501 device.

Supply	Size	Length (mm)	For series	Code
Spare or incorporated in the cam switch	0-1	200	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-EPR11
	5 □5	500		DT-EPR12
	2	200	T50-T63 T100-T175	DT-EPR21
	7 □7	500		DT-EPR22
Only incorporated in the cam switch	3	upon request	T200	-

*(L) Specify total length when ordering

13 14 15 16 **I**



One way rotation
D405

This device allows to rotate the handle in only one way.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40



Clutch device with door interlock
D501

With door interlock in ON position (switch 0-1 to 90°) or according to the electrical diagram.

1 Size 0 with padlockable handle included.

2 Size 0 - 1 - 2 - 3.

	Supply		Size	For series	Code
1	Spare	D501 + 704 90°	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-75401N07
					DT-75401R01
	Incorporated in the cam switch				12 13 14 15 16 F 6 N 1
					12 13 14 15 16 F 6 R D
2	Spare	90°	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-50102
			1	T16-T25-T32-T40	DT-50101
			2	T50-T63-T100-T175	DT-50121
			3	T200	DT-50131
		60°	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-50104
			2	T50-T63-T100-T175	DT-50124
			3	T200	DT-50134
		45°	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-50103
			2	T50-T63-T100-T175	DT-50123
			3	T200	DT-50133
	Incorporated in the cam switch				12 13 14 15 16 F

12 13 14 15 16
B



Coaxial coupling
D600

Simultaneous operation with only one handle of two or more cam switches (T series) with different ratings coupled together.

D701 Keya 12 13 14 15 16 — Z 4 1 B



Key handle device
D701

D701 Supplied as standard with ø22mm fixing; ø30 mm also available under request.

The key can be locked and removed on request at 60°, 90° or 180°.

Assembly limitation:
4 contacts actuating simultaneously.

D711 Supplied as standard with screw mounting and different types of keys that can be locked and removed at 90°.

Assembly limitation:
4 contacts actuating simultaneously.

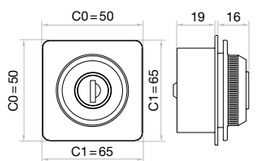
D711 Keya 13 14 15 16 — M 1 1



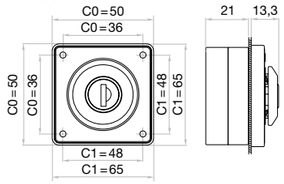
Key handle device
D711

Supply	Size	For series
Only incorporated in the cam switch	0 - 1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40

D701



D711



D702 14 15 16 — 6



Key lock device
D702

D703 14 15 16 — 7

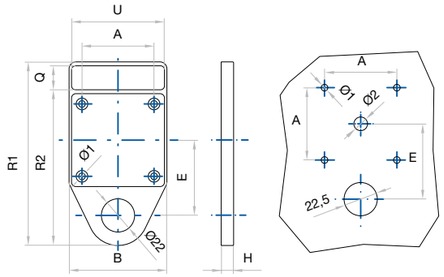


Key lock device with inscription plate
D703

D702 The key lok device allows the adaptation of 1 or 2 auxiliary contacts (1NO + 1NC) operated by turning the key (like signalling or control contacts).

D703 Inscription plate included with text as requested.

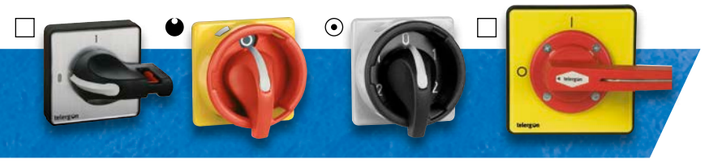
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63 T100-T175
	3	T200



✻ Auxiliary contacts 1NO + 1NC

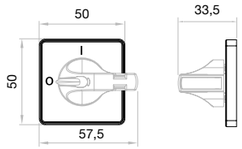


Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16



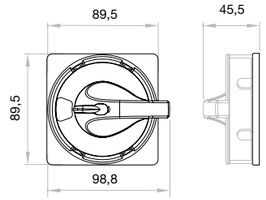
Padlockable handle
D704

- Allows the blockade of the handle in OFF position using padlock.
- Available in red colour on yellow background 15 R or black colour on grey background 15 N
- According to the machinery directive and the european standards, red & yellow handles 15 R are intended to be used only in ON - OFF safety switches.
- For switches O-I specify version 15 R or 15 N, for the rest will be supplied 15 N version (padlocks not included).

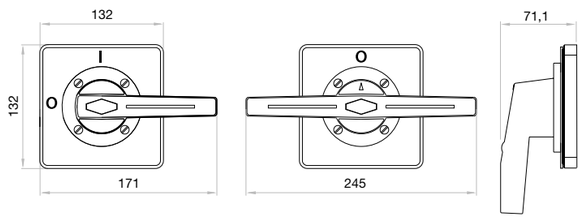


Size 0

Size 0-1



Size 2



Size 3

		Supply	Size	For series	Code
□	Square plate	Spare	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 TP10	DT-70401N07 DT-70401R01*
		Incorporated in the cam switch			13 14 15 16 6 N 1 13 14 15 16 6 R D
●	Closed view	Spare	0 - 1	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-7041CN02 DT-7041CR02
		Incorporated in the cam switch			13 14 15 16 7 N 0 13 14 15 16 7 R 0
⊙	Open view	Spare			DT-7041AN02 DT-7041AR02
		Incorporated in the cam switch			13 14 15 16 C N 0 13 14 15 16 C R 0
●	Closed view	Spare	2	T50-T63 T100-T175	DT-7042CN02 DT-7042CR02
		Incorporated in the cam switch			13 14 15 16 7 N 0 13 14 15 16 7 R 0
⊙	Open view	Spare			DT-7042AN02 DT-7042AR02
		Incorporated in the cam switch			13 14 15 16 C N 0 13 14 15 16 C R 0
□	Square plate (single handle)	Spare	3	T200	DT-70431 DT-70433*
		Incorporated in the cam switch			13 14 15 16 N N 1 13 14 15 16 N R D
□	Square plate (double handle)	Spare			DT-70432 DT-70434*
		Incorporated in the cam switch			13 14 15 16 O N 1 13 14 15 16 O R D

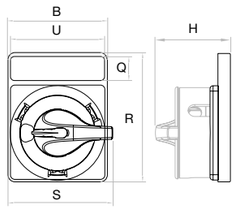
* Yellow plate with 0 - 1 positions included



Padlockable handle with inscription plate
D705

- Handle can be blocked in OFF position using padlocks.
- Available in red colour on yellow background 15 R or black colour on grey background 15 N
- Inscription plate included with text as requested.
- According to the machinery directive and the european standards, red & yellow handles 15 R are intended to be used only in ON - OFF safety switches.
- For switches O-I specify version 15 R or 15 N, for the rest will be supplied 15 N version (padlocks not included).

		Supply	Size	For series	Code
●	Closed view	Only incorporated in the cam switch	0 - 1	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 T16-T25 T32-T40	13 14 15 16 7 N 2
					13 14 15 16 7 R 2
⊙	Open view	Only incorporated in the cam switch			13 14 15 16 C N 2
					13 14 15 16 C R 2
●	Closed view	Only incorporated in the cam switch	2	T50-T63 T100-T175	13 14 15 16 7 N 2
					13 14 15 16 7 R 2
⊙	Open view	Only incorporated in the cam switch			13 14 15 16 C N 2
					13 14 15 16 C R 2
□	Square plate (single handle)	Only incorporated in the cam switch	3	T200	13 14 15 16 N N 2
					13 14 15 16 N R 2
□	Square plate (double handle)	Only incorporated in the cam switch			13 14 15 16 O N 2
					13 14 15 16 O R 2



Size	B	H	Q	R	S	U
0-1	6 5	48,5	16	85	65,8	61
2	94	53,5	19	117	98,8	90
3	132	71,5	21	157	171 245	126

14 15 16 D708 8



Push button blocking system
D708

14 15 16 D709 9



Push button blocking system with inscription plate
D709

D708 Available in two versions (specify when ordering):

1) The handle is blocked in all positions.
2) The handle is blocked only in OFF position.

The switch in version 2 can be used for emergency operation since the handle is not blocked in ON position.

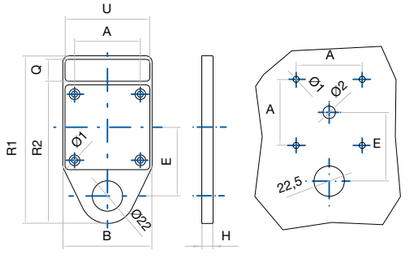
Both versions admit the adaptation of 1 and 2 changeover auxiliary contacts (1NO+1NC), which are activated when the button is pressed and it can be used as signalling and combined operation with contactors.

D709 Inscription plate included with text as requested.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25 TB32-TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63-T100-T175
	3	T200

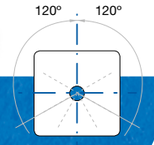


✻ Auxiliary contacts 1NO + 1NC 2NO + 2NC



Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

13 14 15 16 K



Return from one or two ways up to 120°
D802

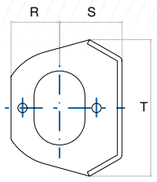
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40

14 15 16 E



Terminal shrouds
D900

Sizes 0-1 and 2 are supplied as standard with removable protected terminals (IP20).

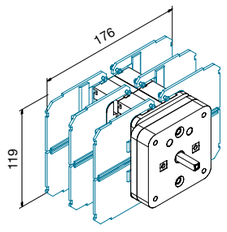


Series	R	S	S
T12 T20	21	27	59
T16 T25 T32 T40	28	34	72
T50 T63 T100	15	52	104
T200	40	155	130

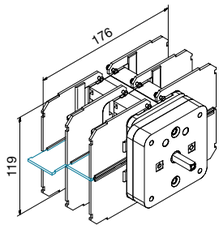
Supply	Size	For series	Code
Spare	0	T12-T20	DT-90002
	1	T16-T25-T32-T40	DT-90012
	2	T50-T63	DT-90022
		T100	DT-90024
	3*	T200	DT-90031
		T400	DT-90032

* Max. 2 chambers

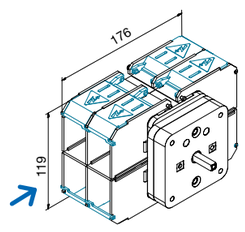
T175 terminal shrouds and phase barriers
D900



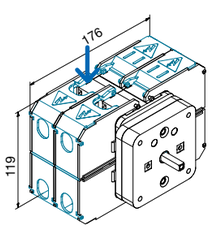
Phase barriers - Vertical
Code **DT-90025** (4 units)



Phase barriers - Horizontal
Code **DT-90026** (2 units)



Terminal shrouds (L)
Code **DT-90027** (4 units)



Terminal shrouds (S)
Code **DT-90028** (4 units)

12 13 14 15 16 A



DIN rail mounting device
D904



Front plates for distribution boards
D905

D904 Included as standard in D-F-G fixing types for TB-TF and T175 series.

D905 DIN rail mounting with frontal plate and handle for distribution boards.

	Supply	Size	For series	Code
D904	Spare or incorporated in the cam switch	0-1	T12-T20-T16 T25-T32-T40	DT-90401
		2	T50-T63-T100-T175	DT-90421
D905	Only incorporated in the cam switch	0	T12-T20 TF12-TF16-TF25	12 13 14 15 16 H 8 N 0

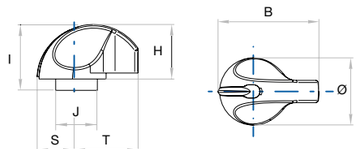


Handles (plastic)

- 14 1 Arrow handle with indicator.
- 14 2 Ball lever handle for size 1 and 3.
- 14 B Double handle for cam switches size 3.

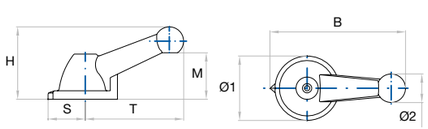
	Supply	Size		Code
Arrow handle with indicator	Spare or incorporated in the cam switch	0	●	40110030
			●	40110031
		1	●	40111034
			●	40111035
		2	●	40112028
			●	40112029
		3	●	40113023
			●	40113024
Ball lever	Spare or incorporated in the cam switch	1	●	40111002
			●	40111003
		3	●	40113002
			●	40113001
Double handle	Spare or incorporated in the cam switch	3	●	40113008
			●	40113007

Arrow hadle with indicator (sizes 0 - 1 - 2 - 3)



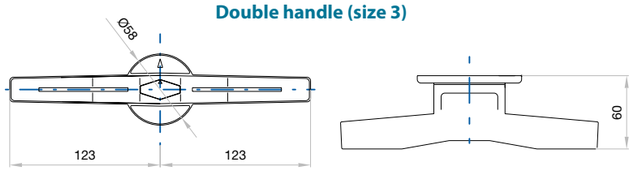
Size	B	H	I	J	S	T	Ø
0	39,3	26,8	30,5	14,5	13,5	24	27
1	50	28	33	14,5	18	32	36
2	66,5	36,5	-	-	22,5	44	45
3	100	54	-	-	38	62	76

Ball lever (sizes 1 - 3)



Size	B	H	S	T	M	Ø1	Ø2
1	89	48	24	65	32,5	37	18
3	151,5	81	41,5	110	52	72	32

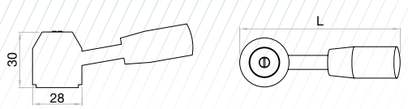
Double handle (size 3)



13 14 15 16

Handles (metal & plastic)



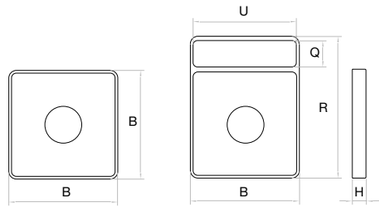


	Supply	Size		Code
Metal lever & plastic	Spare or incorporated in the cam switch	0	L=90mm	9-KN100146
			L=108mm	9-KN100145



Neutral name plates and neutral inscription plates

- Plastic indicating plate on square base with black engraving
- Also in yellow colour available (emergency handle).
- Different engravings are available under request.
- PPA model with inscription plate.



PPA **PRA**

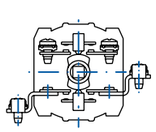
Size	B	R	H	U	Q
0	50	65	6,5	47	11
1	65	85	6,5	61	16
2	94	117	7	90	19
3	132	157	10	126	21

	Supply	Size	Code		
			○	○	■
PPA (neutral plate)	Spare or incorporated in the cam switch	0	40140045	40140061	40110028
		1	40141039	40141053	40111032
		2	40142020	40142028	40142025
		3	40143020	40143028	40143084

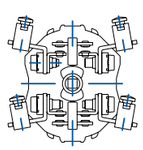
	Supply	Size	Code		
			▬		■
PRA (neutral plate)	Spare or incorporated in the cam switch	0	40140203		40110029
		1	40141188		40111033
		2	40142095		40112026
		3	40143088		40143086

Terminal extensions CP

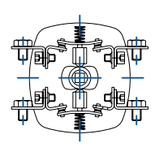
Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20
	1	T16-T25-T32-T40
	2	T50-T63-T100



T12-T16-T20-T25



T32-T40-T63-T100

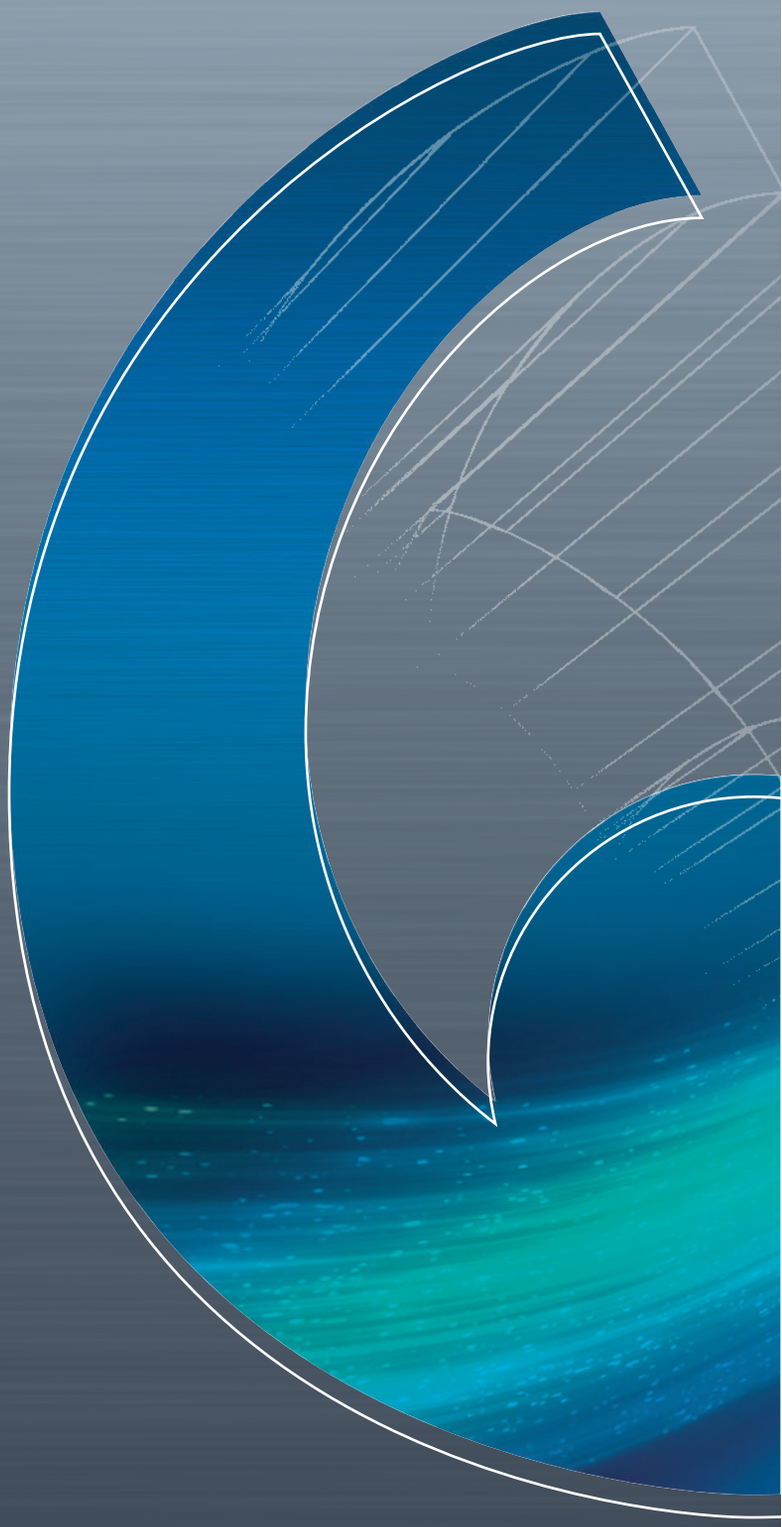


T200 standard connection as per drawing



Fast-on terminals 6,25 x 0,8

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20 T16-T25-T32-T40



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