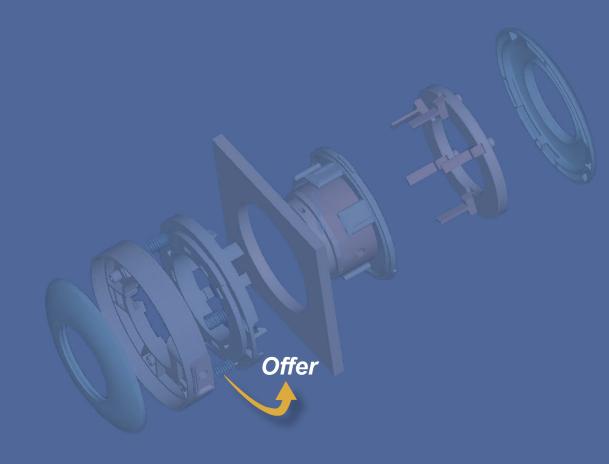
Contents

Select your chapter

- Characteristics
- Control devices
- Dimensions
- Standardised schematics



Standard C800 16A Switches



& CBN800 Switches from 10 mA

General Characteristics

These switches are designed for currents ranging from 10 mA to 16 mA, and voltages from 12 V to 500 V, depending on the type, standard C800, or low level with self-cleaning contacts CBN800, even in agressive and contaminating industrial environments.

However, their breaking power with direct or rectified current is naturally lower than that when used alternating current.

Particularities:

Mechanism - 4 or 8 positions for the normal versions.

- 4 positions for the reinforced versions designed for severe operating and handling conditions, and especially where

the number of tiers is high.

Electrical tiers - 2 independent "double-break" type contacts per tier, each activated by a cam.

- From 10 W for the standard C800 version.

- From 10 mA to 16 A and from 1 V to 500 V in the CBN800 version with self-cleaning contacts.

- Standard mechanism : up to 8 tiers i.e. 16 contacts, from 8 to 12 tiers contact us (beyond 12 tiers, a double

mechanism is possible)

- Reinforced mechanism : up to 40 tiers i.e. 80 contacts.

Environmental Characteristics

Compliance with standards	IEC & NF EN 60 947-1 IEC & NF EN 60 947-3
Protective finish	Tropicalisation (operation at + 65°C with 95 % humidity).
Degree of protection	IEC & NF EN 60 529 IP 65 (on request)
Temperature	Storage: - 40°C to +70°C Operating: -25°C to +70°C (- 40°C on request).
Vibration resistance	5g from 25 to 250Hz
Shock resistance	30g (1/2 sine waveform, for 11ms)

Characteristics of the contacts

Mechanical life expectancy	Standard mechanism 10 ⁵ to 6x10 ⁵ Reinforced mechanism 3x10 ⁵
Electrical durality	Rated thermal current 16 A. Rated insulation voltage 500 V.

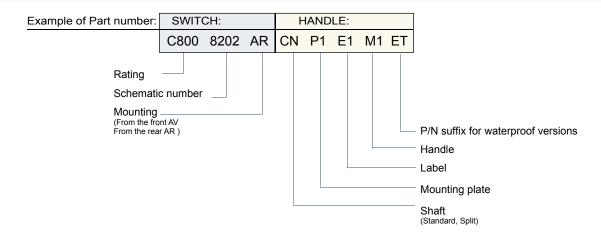
Change in contact Resistance : CBN800

I in mA	U in V	Contact resistance when new	Contact resistance after 3x10 ⁵ switching ops.
10	72	≤30 mΩ	≤30 mΩ
400	72	≤30 mΩ	≤30 mΩ
2000	72	≤30 mΩ	≤30 mΩ

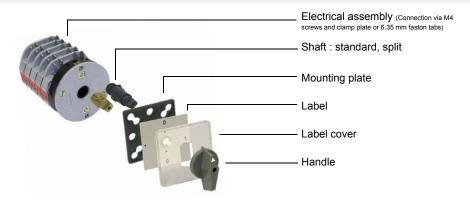




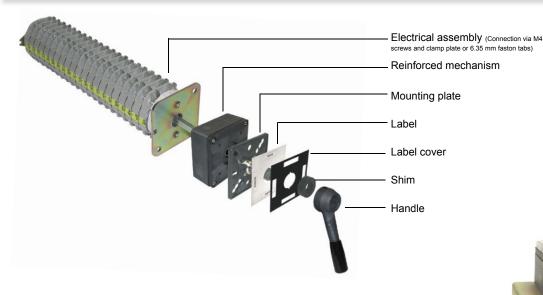
Composition



Standard C800 and CBN800 switches



C800 et CBN800 switches with reinforced mechanism





Options

- inhibition: stops prevent switching from one position to the next or to several consecutive positions.
- locking: mechanism using a key or a padlock.
- switch with automatic return.

Specific units

- locking: electric locking (electro-magnet).
- controlled via a geared motor.
- interlocked switch mounted on a chassis.
- switch with double columns.

Contact us.

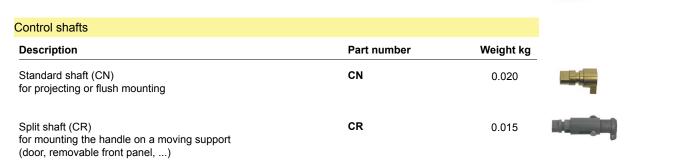






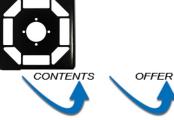
Control devises

Handles			
Description	Colour	Part number	Weight kg
Standard plastic paddle 45 x 22	Grey Black	M 1 M 1 N	0.005
Standard plastic paddle 60 x 30	Grey Black	M 2 M 2 N	0.010
Ball-end lever Steel stem		M5	0.130
Plastic handle	Grey Black	M4 M4 N	0.020
Plastic handle locking device : standard 620 key (for other keys, contact us)	Grey	М6	0.150
Plastic handle with plunger for locking with 1,2,3 padlocks	Grey	M7	
Lever for reinforced mechanism	Grey Black	MXQ 068A1 MXQ 068A0	0.104



Mounting plates			
Description	Colour	Part number	Weight kg
Plastic mounting plate 70x70 mm and transparent label cover 75x75 mm	Grey Black	P1 P1 N	0.035
Plastic mounting plate 85x85 mm and transparent label cover 90x90 mm	Grey Black	P3 P3 N	0.055
Metal label cover for P/N P3 only	Black	J5	0.060







Control devices

Padlockable mounting plate and paddle

Part number Weight kg Description

Mounting plate and paddle can be padlocked in 1 or 2 positions, in standard IP409 or waterproof IP699 version (add **ET** to the P/N). Positions visible both from the front and from the side. Plastic material.

1 padlockable position

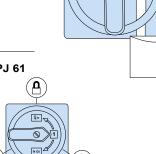
Standard shaft

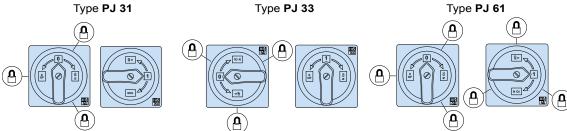
2 padlockable positions Standard shaft

QCN PJ 31MR QCN PJ 33MR QCN PJ 61MR 0.56



0





PVC Labels

Description	Colour	Part number	Weight kg	
Blank label (to be engraved) 63 x 63	Grey	<mark>E.</mark> 100	0.001	
(P1 mounting plate)				
Blank label (to be engraved) 77 x 77 (P3 mounting plate)	Grey	E.200	0.002	





Aluminium Labels

Description	Colour	Part number	Weight k	g		
Blank label 63 x 63 (P1 mounting plate)	Grey	E.300	0.002			
Blank label 77 x 77 (P3 mounting plate)	Grey	<mark>E.</mark> 400 ▲	0.003			
Label with standard markings	Grey background black text	0 1	0 1 0	$\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} \begin{bmatrix} 0 \\ 1 \\ 2 \\ 4 \end{bmatrix}$	0 1 2 5 4 3	0 1 6 2 5 4 3
Use the P/N root as follows: E1 for P1 mounting plate E2 for P3 mounting plate		E110 E210	E111 E112 E211 E212	E113 E213	E114 E214	E115 E215





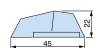
Dimensions

Handles

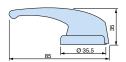
M1

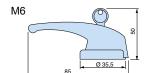


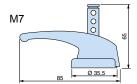
M2



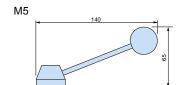
M4

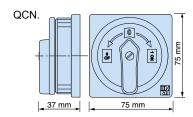


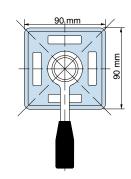




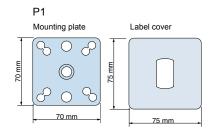
CBN.

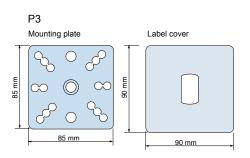


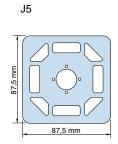




Mounting plate and label cover



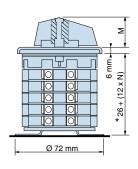


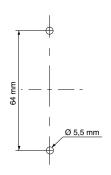




Dimensions and panel cut-outs: C800 switch

Projecting mounting (device attached via the rear plate): AR

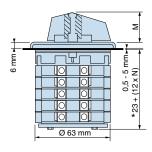


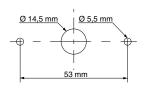


*Where AR attachment is used with M6 or M7 lockable handles:

The 26 mm dimensions becomes 38 mm.

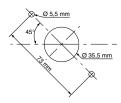
Flush-mounted (device attached via the front panel, from the front): AV



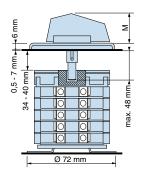


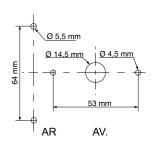
*Where AV attachment is used with M6 or M7 lockable handles:

The 23 mm dimension becomes 35 mm.

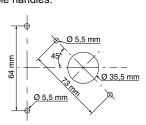


Split mounting (unit attached via the rear plate and mounting plate/handle on mobile front panel): CR





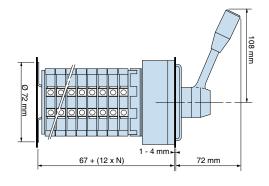
Panel cut-out where AV attachment is used with M6 or M7 lockable handles.

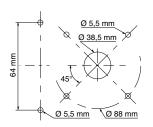


Dimensions and panel cut-outs: CBN800 switch

Units with a reinforced mechanism

Where there are more than 16 tiers (i.e. 32 contacts) or where the operating conditions are particularly severe, the unit is fitted with a reinforced mechanism (housing moulded in light alloy, cams and positioning stops in heat-treated steel).

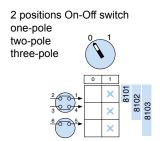


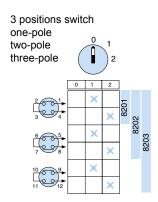


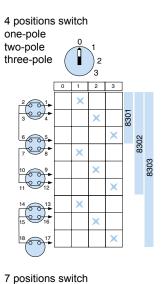




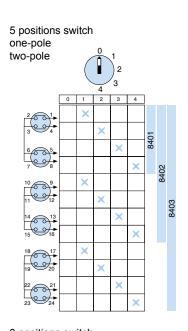
Standardised schematics (See our "Control components" catalogue for other standardised schematics)

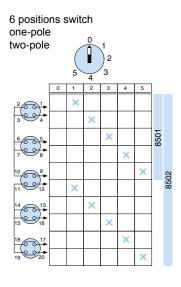


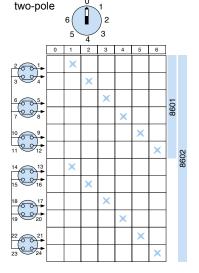


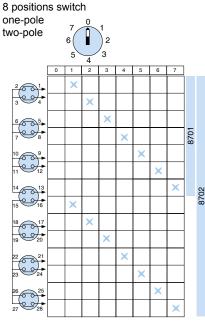


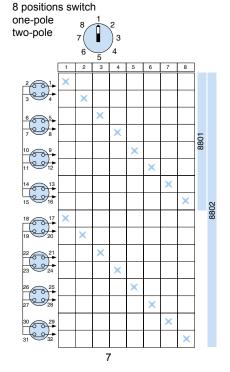
one-pole

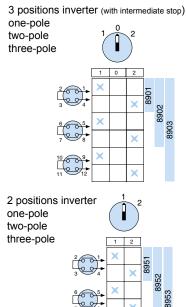












CONTENTS

OFFER



Example of electrical schematic

"X" indicates that the contact is closed

"X X" indicates contacts which overlap two positions.

					Mechan	ism and	position			
	\times	90°	1		2		3		4	
		45°	1	2	3	4	5	6	7	8
	С	ontact								
r 1	2	1	X							
Tier	3	4			X		Х			
r 2	6	5						X —	X	
Tier	7	8					X	X		

- Choice of the 90° positions (1.2.3.4)

- X Contact 1.2. closed in position 1

- X Contact 3.4. closed in 2 and 3

- X X Contact 5.6. closed in 4

- X—X Contact 7.8. closed in 3 and overlapping each other. (Only possible with 90° positions)

Switches with special schematics (definition chart)

- **1** Tick the selector type.
- . Strike out the unused mechanism positions.
- . Used the symbol "X" to show closed contacts and fill in the chart opposite
- . Used the symbol "X—X" to show contacts overlapping two positions.

⚠ 80 contacts max.

- **2** Indicate the label engraving.
- **3** Tick the type of connection

Electrical	schematic
------------	-----------

	incondition and position						1			
		90°	1		2		3		4	
		45°	1	2	3	4	5	6	7	8
		ontact								
Tier 1	2_	1								
ij	3_	4								
Tier 2	6_	5								
Tie	7_	8								
53	10 _	9								
Tier 3		12								
Tier 4	14 _	13								
Ě	15_	16								
r 5	18 _	17 20								
Ţ	19 _	20								
Tier 6	22 _	21								
ij	23 _	24								
Tier 7	26 _	25								
Tie		28								
Tier 8	30 _	29								
Ţ	31 _	32								

Mechanism and position

2 - Label marking

Position	Text to be engraved
1	
2	
3	
4	
5	
6	
7	
8	

3 - Connection type

M4 screw and clamp plate

6.35 faston tabs

