

87045 LIMOGES Cedex

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Push- buttons and Control switches CX³

Cat N°(s): 4 129 08, 4 129 09, 4 129 10, 4 129 11, 4 129 12, 4 129 13, 4 129 14, 4 129 15, 4 129 16, 4 129 18, 4 129 19, 4 129 20, 4 129 40



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1. DESCRIPTION - USE

Push-buttons and Control switches to control an electrical circuit. Control switches with connectable Led indicator.

2. RANGE

Functions, symbols, cat n°

Single function push-buttons:

1 NO 20AX - 250V~	1——2	4 129 08
1 NC 20AX - 250V~	1———2	4 129 09

1_;__2

Single function control switches:

2 NO 20AX - 250V~	3 - 4 1 - 2	4 129 10
1 NO + NC 20AX - 250V~	3 4	4 129 11

Dual functions push-buttons with indicator:

1 NO 20AX - 250V~ + Green LED indicator 12/48 V \sim /===	12/48V ~ / X1 — & X2 1 — 2	4 129 18
1 NC 20AX - 250V~ + Red LED indicator 12/48 V ~/===	12/48V ~/ X1 —	4 129 19
1 NO 20AX - 250V~ + Green LED indicator 110/400 V~	110/400V ~ X1 ————————————————————————————————————	4 129 20
1 NC 20AX - 250V~ + Red LED indicator 110/400 V~	110/400V ~ X1 — ⊗ — X2 1 — 7 2	4 129 40

2. RANGE (continued)

Dual functions control switches with indicator:

1 NO 20AX - 250V~ + Green LED indicator 12/48 V \sim /===	12/48V ~/ = X1 —⊗—X2 1 — 2	4 129 12
1 NC 20AX - 250V~ + Red LED indicator 12/48 V ~ /===	12/48V ~/ X1	4 129 13
1 NO 20AX - 250V~ + Green LED indicator 110/400 V~	110/400V~ X1————————————————————————————————————	4 129 14
1 NC 20AX - 250V~ + Red LED indicator 110/400 V~	110/400V ~ X1—⊗— X2 1—₹—2	4 129 15

Dual functions push-buttons without indicator:

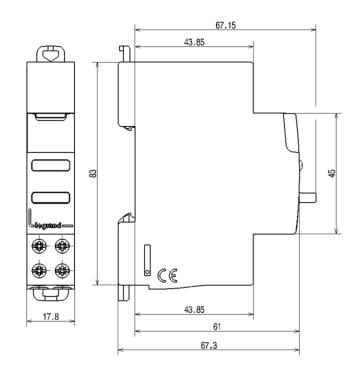
1 NO (Green) 20AX - 250V~	3 — 4	4 129 16
1 NC (Red) 20AX - 250V~	1——2	

Technical data sheet: F02022EN/03 Updated on : 20/10/2020 Created on: 16/01/2015

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3. OVERALL DIMENSIONS



4. PREPARATION - CONNECTION

Operating positions:

.Vertical Horizontal On the side Upside down

Mounting:

On symmetrical EN 60.715 rail or DIN 35 rail.

Power supply:

By the lower side.

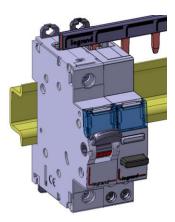
Recommended tools:

- . For the terminals srew : Screwdriver isolated or not with 4 mm blade or Pozidriv no. 1 screwdriver.
- . For attaching or removing the DIN rail : screwdriver with 5.5 mm blade or Pozidriv no. 2 screwdriver.

4. PREPARATION - CONNECTION (continued)

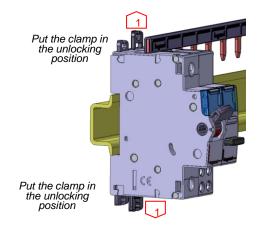
Position in a row:

The product profile and the position of the terminals at the downstream allow the insertion of the prong-busbar by the upstream. In this way the position of the Push-button or Control switch in a row can be freely chosen.



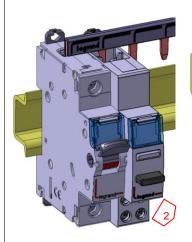
Module maintenance:

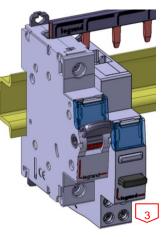
. A Push-button or Control switch may be replaced in the middle of a row supplied with prong-busbar without disconnecting the other devices.



Pull the device downward in order to release it completely from the prongs of the busbar

Pull the device forward in order to release it from the rail





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4. PREPARATION - CONNECTION (continued)

Connection:

Screw terminals:

Type of terminal: caged

- Terminal depth: 10 mm - Capacity (h x w): 4.7 x 4.7 mm

Connectable section (copper cables):

Rigid: 1 x (0,75 à 4 mm²) ou 2 x (0,75 à 2,5 mm²)
Flexible wire without ferrule: 1 x (0,75 à 4 mm²) or 2 x (0,75 à 2.5 mm²)
Flexible wire with ferrule: 1 x (0,75 à 4 mm²)
Flexible wire with double ferrule: 2 x (0,75 à 2.5 mm²)
- Screw head: mixed M3.5, slotted 4mm and pozidriv n°1
- Tightening torques: mini 0.8Nm; maxi 1.8Nm; recommended

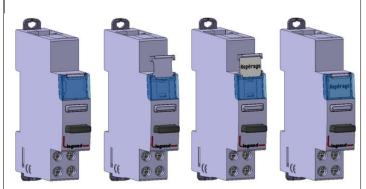
1.4Ňm

Manual actuation of the device:

. Ergonimic button with 1 or 2 positions in accordance with the cat. No

Labelling:

.Circuit identification by way of a label inserted in the label holder situated on the front of the product.





*Rated current with X: devices able to switch fluorescent lamps

Operating voltage:

1 pole without indicator light:

. Ue = 250 V ~

1 pole with indicator light:

. Ue switch button = 250 V ~

.Ue indicator in accordance with cat.N° 12/48 V ~ /=== ; 110/400 V~

Rated power (max) of control switches intended for use with self ballasted lamp (SBL)

. P = 250 W

Rated frequency:

. 50/60 Hz with standard tolerances.

Insulation voltage:

. Ui = 500 V

5. GENERAL CHARACTERISTICS (continued)

Rated impulse withstand voltage:

. Uimp = 4 kV

Utilization category:

. AC12: mixed load according to IEC 60947-5.1

Degree of pollution:

. 2 in accordance with standard EN/IEC 60898-1

Indicator light:

Technology: non replaceable LED lamps

Power dissipated per Led:

	Led: 12/48	V		Led: 110/400	V
	P(w)		P(v	v)
U (v)	AC	DC	U (v)	AC	DC
12	0.006	0.008	110	0.04	0.06
24	0.03	0.04	230	0.17	0.24
48	0.12	0.17	400	0.52	0.72

Life time 100 000 hours without maintenance.

Color of the translucent plastic window: red, green, yellow, blue, white (in accordance with the cat. N°)

The ergonomic design of the translucent plastic window allows an homogeneous projection of the light.

Dissipated power for control switches devices :

Туре	1 NC	1 NO	2 NO
Power (W)	0.8	0.6	1.4

Protection class:

.Terminal protection when the product was connected:

IP2X according to IEC 529 - EN 60529 et NF C 20-010.

.Index Protection against solid and liquid body (wired device)

IP40 according to IEC 529 - EN 60529 et NF C 20-010.

- . Protection against shocks: IK04 according to EN 62262.
- . Class II, front panel with faceplate.

Plastic materials :

. Polyamide, PC

Enclosure heat and fire resistance:

. Resistance to glow wire tests at 960°C / 30 s, according to standard CEI 60695-2-10 & 60695-2-11.

Mechanical endurance:

. 150 000 operations without electrical load.

Electrical endurance:

- . In accordance with standard IEC/EN 60669-1
- . 30 000 operations with normal electrical load.
- . 30 000 operations with fluorescent electrical lamp according to IEC 60947-5.1.
- . 30 000 operations with load AC12 (following IEC 60947-5.1).

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5. GENERAL CHARACTERISTICS (continued)

Vibrations and tremors resistance:

. Compliant with appendix Q category F of standard IEC/EN 60947-1

Ambient temperatures :

- . Operating: from 5 °C to + 70 °C.
- . Storage: from 40 °C to + 70 °C.

Short-circuit behavior in coordination with upstream protection:

- . Tests performed according to the protocol of IEC/EN 60669-2-4 : The device remains fully functional and meets the switch tests after suffering two short circuits established in coordination with the DPCC (Device for Protection against short circuits) of the following table.
 - The first short circuit has been set at an angle of 45 °.
 - The second has been provided by the switching of the Control switch on the short-circuit.

Upstream protection:	Characteristics
Range	DX ³ MCB
Breaking capacity	4500/6KA
Rated current	20A
Operating voltage	250V~

Volume when packed:

	Packaging	Volume (dm³)
1 module	by 10	1.6

Average unit weight:

Cat N°	Weight (grams)
4 129 08 - 09	50.2 g
4 129 10 - 11	58.7 g
4 129 12 - 13 - 14 - 15	30.7 g
4 129 16	61.7 g
4 129 18 - 19 - 20 -40	58.4 g

6. CONFORMITY AND APPROVALS

Compliant to standard:

. IEC/EN 60669-1

Use in particular conditions:

. Compliant to category F according to classification defined in appendix Q of standard IEC/EN 60947-1.

Environment respect – Compliance with CEE directives:

- . Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st July 2006
- . Compliance with the Directive 91/338/EEC of 18/06/91 and decree 94-647 of 27/07/04.
- . Compliant with regulation REACH

Plastic materials:

- . Halogens-free plastic materials. . Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

. Design and manufacture of packaging compliant to decree 98-638 of the 20/07/98 and also to directive 94/62/CE.

Environnemental profile:

. PEP document available

Approvals obtained:

. See list of approvals available.

Installation software:

. XL PRO3.

La legrand