Technical data

Compliance with standards

IEC 947.5.1 - VDE 0660 - NFC63140 CEI EN60947.5.1 - UTE - BSI - NEMA CENELEC EN 50007

Approvals

UL (U.S.A) - CSA (Canada) - RINA Lloyd's Register of Shipping - Bureau Veritas

Climatic protections

The standard versions are suitable for use in the following climates:

Temperate climate	cat. 23/50 (DIN 50014)
Wet climate	cat. 23/83 (DIN 50015)
Hot wet climate	cat. 40/92 (DIN 50015)
Variable wet climate	FW24 (DIN 50016)

Temperature ranges

Operation	-25 °C to + 70 °C
Storage	-40 °C to + 70 °C

Protection degree of the operators

IP66 according to CENELEC EN 60529 when they are mounted into enclosures with the same or a higher degree of protection. Suitable for using into enclosures type NEMA 1-3-3R-3S-4-4X-12-13 according to UL 508.

Protection degree of the terminals

IP2x according to CENELEC EN 60529.

Shock resistance (acc. to MIL 202 B method 202 A)

1/2 sinusoid 11 ms

No damage or disassembling at 100 g for all devices, except for the illuminated operators with transformer 38 g.

Vibration resistance (according to IEC 68-2-6)

16 g with frequency range from 40 to 500 Hz and maximum shifting 0.75 mm (peak-to-peak).

Rated insulation voltage

690V according to EN 60947.1

Impulse withstand voltage

4 kV according to EN 60947.1

Insulation class

Groep C according VDE 0110

Electrical shocks protection (acc. IEC 536)

Metal operators	Class I			
Plastic operators	Class II (double insulation)			

Short-circuit protection

With fuses 16A gG according to IEC 269.1 and 269.3.

Performances of the contacts

- · Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- · Four switching points
- Double break

Electrical resistance of the contact

 \leqslant 25 m Ω according to IEC255, cat. 3

Identification of the terminals

According CENELEC EN 50013

Electrical performances

Rated thermal current Ith = 10 A

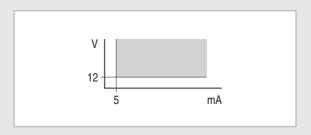
Performances according IEC 947.5.1

Categorie AC	15									
Voltage	Ue	(V)	24	48	60	110	220	380	500	600
Current	le	(A)	10	10	10	6	3	2	1.5	1.2
Categorie DC	13									
Voltage	Ue	(V)	24	48	60	110	220	300		
Currente	le	(A)	2.5	1.4	1	0.55	0.27	0.2		

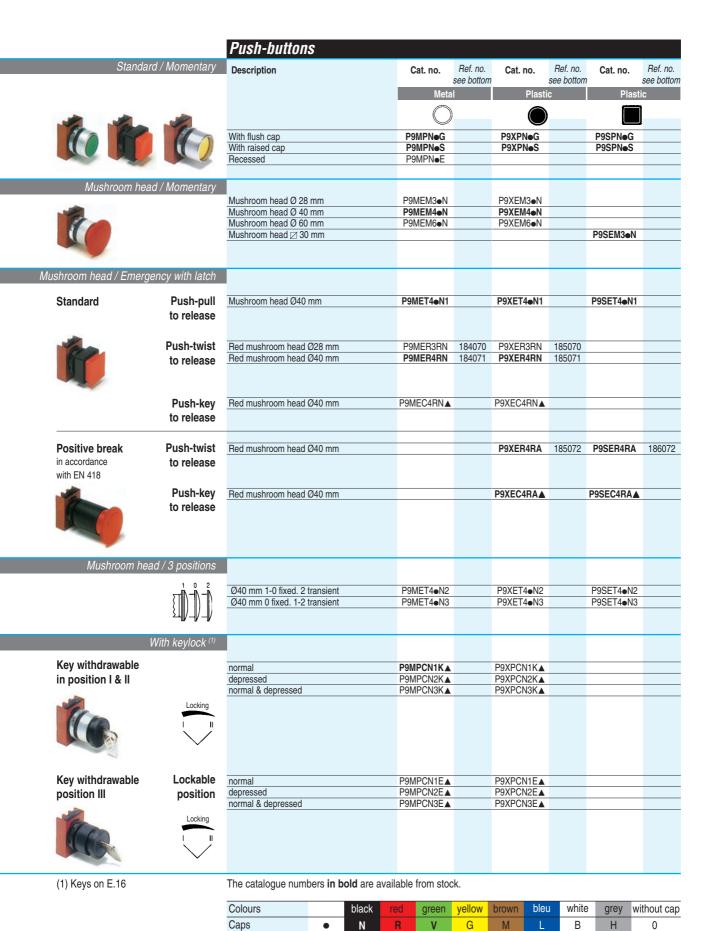
Performances according to CSA and UL

AC Heavy Duty (A600)
DC Standard Duty (Q300)

Operating range



		Nomenclature						
its	Standard & illuminated push-buttons	P9	P					
un ı		Style	Туре	Туре	Cap colour	Push-button type	Lens type	
Control and signalling units		 M = Round satin chrome X = Round plastic S = Square plastic 	P = Push button	N = Non illuminated L = Illuminated	0 = No cap N = Black R = Red V = Green G = Yellow L = Blue B = White M = Brown H = Grey	G = Flush S = Extended E = Recessed	D = Diffused for illuminated push button only	
ntro	Double function push-buttons	P9 D	P	L				
Co		Style	Туре	Туре	Cap colour	Push-button type	ISO symbols	
			P = Push button	L = Illuminated	V = Green N = Black	G = Flush S = Top flush bottom extended	00 = No sym. 01 = With sym.	
	Pilot lights	P9						
		Style	Туре	Colour	Lens type	For Unibloc type only		
		M = Round satin chromeX = Round plasticS = Square plastic	L = Standard U = Unibloc	R = Red V = Green G = Yellow L = Blue B = White I = Clear A = Orange	D = Diffused R = Refraced V = Glass	D0 = Full voltage RN = With resistor		
Ε	Mushroom head push-buttons	P9	E					
		Style	Туре	Mushroom diameter	Colour	Illumination	Key selection	
		M = Round satin chromeX = Round plasticS = Square plastic	M = Momentary T = Push/Pull R = Turn to reset C = Key to reset	3 = Ø 28 mm 4 = Ø 40 mm 6 = Ø 60 mm	N = Black R = Red V = Green G = Yellow	N = Non illuminated L = Illuminated	See key selection table on E.16	



Remark: To complete the catalogue number, substitute the symbol ● by a letter Fo

for the choise of the colour and the symbol ▲ by a number for the type of the key.

G

Mushroom heads

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Ν

For reference numbers, see chapter X, pg. X.10

