Momentary pushbutton switches

Distinctive features and specifications





🗆 Two	case	leng	ıths
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- ☐ Three electrical functions
- Sealing options
- ☐ Model X1146 with Ø 16 (.630) bushing

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : silver contact (A) : 1A 30VDC gold plated contacts (CD) : 100mA 30VDC Initial contact resistance : 50 m Ω max. Insulation resistance : 1.000 M Ω min. at 500VDC

- Dielectric strength:
 - 1.000 Vrms 50 Hz min. between terminals
 - 1.500 Vrms 50 Hz min. between terminals and frame
- Electrical life: 250.000 cycles

MATERIALS

- Case: thermoplastique UL94-V0
- Actuator : polyamide, glass filled
- Bushing: brass, nickel plated
- Contacts : A : silver
- CD: brass, gold plated • Terminal seal : epoxy

GENERAL SPECIFICATIONS

• Total travel :

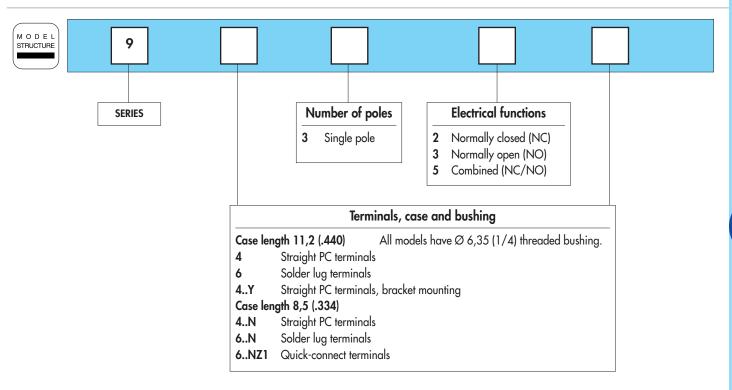
9600-9400-9400Y		9600N-9400N
Functions 3 and 5	Function 2	Function 3
1,3 mm	2 mm	0,9 mm

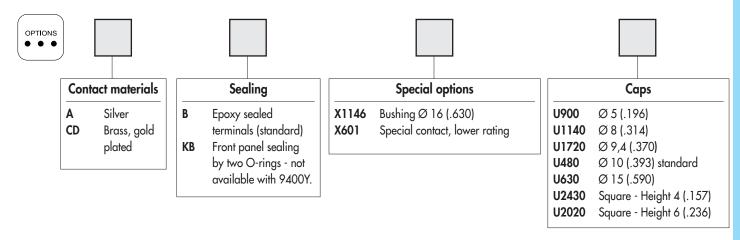
- Torque: 1,25 Nm (.922 Ft.lb) max. applied to nut
- Operating temperature : -30°C to +65°C



Momentary pushbutton switches

Overview





ABOUT THIS SERIES

On the following pages, you will find successively:

- model structure of switches
- their options in the same order as in above chart

Dimensions: first dimensions are in mm while inches are shown as bracketed numbers.



NOTICE: please note that not all combinations of above numbers are available. Refer to the following pages for further information.



Sealing boots are available to protect the switches against dust and water. They are presented in section H.



Mounting accessories: standard hardware supplied with all switches: 2 hex nuts 8 mm (.314) across flats and 1 lockwasher. Standard and special hardware available are presented in section I.

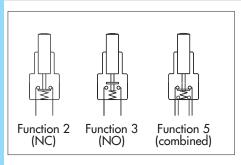


Packaging unit: 50 pieces, except for 9400Y (25 pieces)

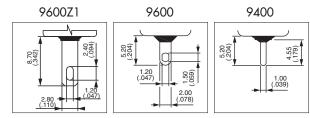
Momentary pushbutton switches

9600 - 9400 - 9400Y





- Single pole
- Solder lug or straight PC terminals
- Epoxy sealed terminals



MODEL STRUCTURE

B2

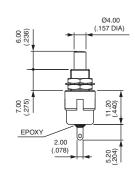
STRUCTURE ______

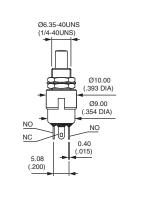
Solder lug terminals - case length 11,2 (.440): 9600



Normally Closed

Combined function





For Normally Open (function 3), see next page.

Straight PC terminals - case length 11,2 (.440): 9400



9432B

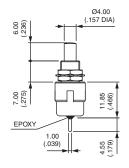
9433B T

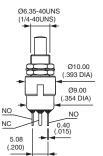
9435B ...

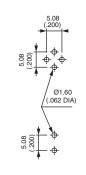
Normally Closed

Normally Open

Combined function







Bracket mounting - case length 11,2 (.440): 9400Y



9432YB

9433YB

9435YB

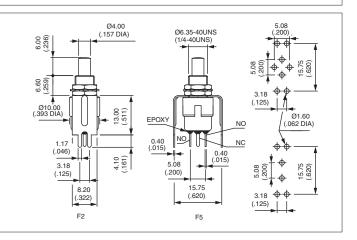
مأه

Normally Closed

Normally Open

Combined function

The bracket is not fastened to the switch.



B2-36



Momentary pushbutton switches

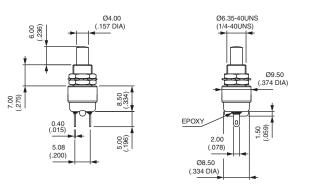
9600N - 9400N

Solder lug terminals - case length 8,5 (.334): 9600N



9633NB _

Normally Open



Also available with quick-connect terminals $2.8 \times 0.5 \text{ mm}$: 9633NZ1

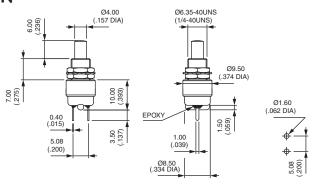
Straight PC terminals - case length 8,5 (.334): 9400N

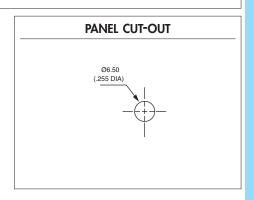


9433NB

1

Normally Open





Bushing Ø 16 (.630) - metal button : 9633 • X1146



Silver contacts 9633AX1146

Normally open

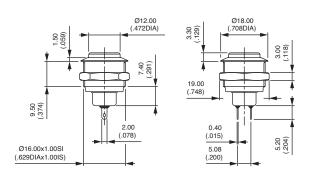
Gold plated silver contacts 9633ADX1146

Normally open

Panel cut-out : Ø 16,2 (.637)

Max. current/voltage rating. : 1A 30VDC

Epoxy sealed terminals. Options of the following pages not applicable.



Hex nut 19 (.748) across flats

Momentary pushbutton switches



CONTACT MATERIALS



A Silver

CD Brass, gold plated

Special contact, lower rating: see X601 under "Special options".

SEALING

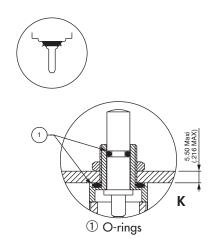


B Epoxy sealed terminals (standard)

KB Combined sealings
Epoxy sealed terminals + front panel sealing by two O-rings.
Protects the switch against water and dust.
Panel seal withstands 0,1 bar pressure.

Option KB not available on 9400Y model.

Sealing boots: see section H.



SPECIAL OPTIONS



X601 Silver plated brass contacts

Current/voltage rating for an electrical life of 20.000 cycles : 0,5A 30VDC. Minimum quantity : 5.000 pieces per model and shipment.

X1146 Model with dia. 16 (.630) bushing and metal plunger See previous page.

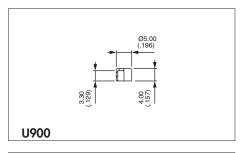
R2

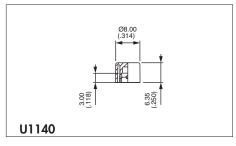


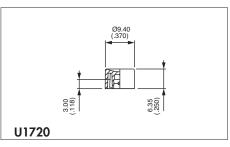
Momentary pushbutton switches

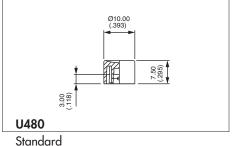
CAPS

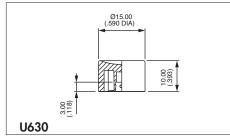




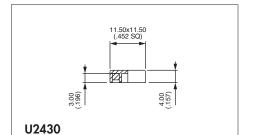


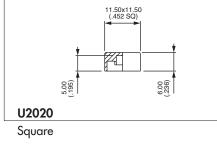








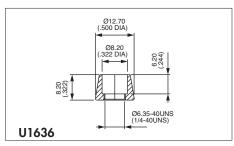




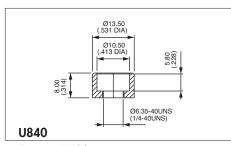
DRESS NUTS

Square

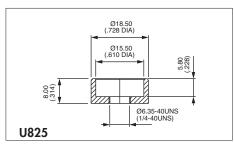
Chrome plated. Order separately.







For cap U480



For cap U630

Alternate action or momentary pushbutton switches

Distinctive features and specifications



- ☐ Bushing Ø 6,35 (1/4) and 11,9 (15/32)
- ☐ Two electrical functions

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load and electrical life:
 silver contacts (A): 1A 28VDC 250.000 cycles
 3A 28VDC 10.000 cycles
 gold plated contacts (CD): 0,4VA 20V max. AC or DC
 Initial contact resistance: 10 mΩ max. at 0,1A 3VDC
- Insulation resistance : $10.000 \text{ M}\Omega$ min.
- Dielectric strength: 1.000 Vrms 50 Hz min.

MATERIALS

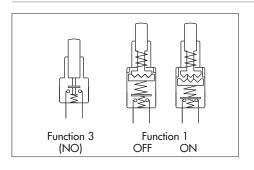
- Case : diallylphthalate
- Actuator : nylon black for series 9630M white for series 9631
- Bushing: brass, nickel plated
- Contacts : A: silver
- CD : brass, gold platedTerminal seal : epoxy

GENERAL SPECIFICATIONS

- Operating temperature : -30°C to +85°C
- Travels : see table below.

MODELS	9631	9633M	
Total travel	3,48 (.137)	2,79 (.110)	
Pre-travel	0,66 (.026)	-	
Over travel	2,69 (.106)	0,51 (.020)	

Alternate action or momentary pushbutton switches



- Single pole
- Solder lug terminals
- Epoxy sealed terminals

