# M3950/15 \& M83731/23 

## QPL listed toggle switches - threaded bushing $\emptyset 11,9$ (15/32)

## Approval and lists

M3950/15
M83731/23


QPL listed
This range of professional toggle switches is suitable for use in military and other high specification environments.

## $\square$ Contacts

Highly reliable contacts suitable for low level applications ( 10 mA 50 mV $10 \mu \mathrm{~A} 5 \mathrm{VDC}$ min.) or power applications (2A 250VAC - 4A 125VAC 4A 30VDC max.)

## $\square$ Pinned lever

The base of the switch lever is pinned to the bushing, thus earthing the lever to the bushing. This also provides strain relief to protect the switch if accidentally knocked.

## $\square$ Double shell case



For high mechanical strength and high electrical insulation.

## Compact size

The small rear end of the switch allows space saving behind the panel.

## $\square$ Finish

Matt black finish on body, bushing, lever and hardware.

## $\square$ Sealing

Panel sealed to IP 67, these switches are frontal sealed by two O-rings and have full rear end sealing.

## $\square$ Accessories

A comprehensive range of protection boots (both full and half length), locking levers and security caps are available.

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OPL listed toggle swithes - threaded bushing $\downarrow 11,9$ (15/32)
Specifications

## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 2A 250VAC - 4A 125VAC - 4A 28VDC
- Minimum load : 10 mA 50 mV , $10 \mu \mathrm{~A}$ 5VDC

When used above 300 mA 28 VDC , the gold plating is removed on contact areas and is considered only as a protection against oxidation during storage.

- Initial contact resistance : $10 \mathrm{~m} \Omega$ max.
- Insulation resistance : $1.000 \mathrm{M} \Omega \mathrm{min}$. at 500VDC
- Dielectric strength :
1.000 Vrms 50 Hz min. between terminals 2.000 Vrms 50 Hz min. between poles
2.000 Vrms 50 Hz min. between terminals and frame
- Contact bounce : 2 ms max.
- Electrical life :
- At 2A 250VAC - 4A 28VDC :
20.000 cycles ( 10.000 for functions $5,4-1 R, 4-2 R$ ) - At low level ( 50 mV 10 mA ) :
150.000 cycles (switches with 2 maintained positions) 100.000 cycles (switches with 3 maintained positions) 50.000 cycles (momentary functions 7, 8, 4-1R, 4-2R, 5)


## MATERIALS

- Case: diallylphthalate (DAP) with plastic external shell (epoxy sealed)
- Actuator: brass, black chrome plated
- Bushing : brass, black chrome plated
- Contacts : solid rivet gold plated silver/nickel alloy



## GENERAL SPECIFICATIONS

- Torque : $1,50 \mathrm{Nm}(1.10 \mathrm{Ft} . \mathrm{lb})$ max. applied to nut
- Panel thickness : $8 \mathrm{~mm}(.314)$ max. -3 mm (.118) min.
- Shock test: $50 \mathrm{~g}-11 \mathrm{~ms}$ (IEC 68-2-27)
- Vibrations : 10-500 Hz - 10g (IEC68-2-6)
- Operating temperature : $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
- Humidity test : 56 days, 93 \% R.H., $40^{\circ} \mathrm{C}$ (IEC 68-2-3)
- Salt spray test : 96 hours (IEC 68-2-11)


## APPROVALS

All models within this range are QPL listed and comply with M3950 and M83731

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## Overview




## ABOUT THIS SERIES

On the following pages, you will find successively :

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

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

Sealing boots can be used to further protect the switches against dust and water. They are presented in section H .

Mounting accessories : standard hardware supplied with all models : 1 hex nut $14 \mathrm{~mm}(.551)$ across flats, part number U41. This nut is presented after model structure of switches.

Security caps are available to prevent inadvertent lever operation. They are presented in section I.
Packaging unit : 20 pieces

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## Terminations

- Solder lug or straight PC terminals



## Solder lug terminals - three pole



M3950/1526
M3950/1529
M3950/1527
M3950/1528


## FLUORESCENT TIP

Blank None
0.38 White fluorescent tip.

Becomes luminous when submitted to ultra-violet rays.

Standard lever
Locking lever


## LEVERS / LOCKING LEVERS

Levers


Standard (leave blank)

## Locking levers



1 locked position (function 6)


Short lever


2 locked positions (function 6)

Sealing boots: see section H.
Security caps : see section I.


3 locked positions (functions 9 and 4)

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