QPL listed toggle switches - threaded bushing Ø 11,9 (15/32)

Distinctive features

	☐ 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.
	Contacts Highly reliable contacts suitable for low level applications (10mA 50mV - 10μA 5VDC min.) or power applications (2A 250VAC - 4A 125VAC - 4A 30VDC max.)
	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.
	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.
	Finish Matt black finish on body, bushing, lever and hardware.
	Sealing Panel sealed to IP 67, these switches are frontal sealed by two O-rings and have full rear end sealing.
	Accessories A comprehensive range of protection boots (both full and half length), locking levers and security caps are available.

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Specifications

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load: 2A 250VAC 4A 125VAC 4A 28VDC

• Minimum load : 10mA 50mV, $10\mu\text{A}$ 5VDCWhen used above 300mA 28VDC, the gold plating is removed on contact areas and is considered only as a protection against oxidation during storage.

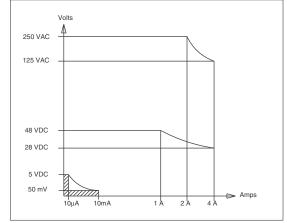
- Initial contact resistance : $10 \text{ m}\Omega$ max.
- Insulation resistance : $1.000 \text{ M}\Omega$ min. at 500 VDC
- Dielectric strength:
 - 1.000 Vrms 50 Hz min. between terminals
- 2.000 Vrms 50 Hz min. between poles
- 2.000 Vrms 50 Hz min. between terminals and frame
- Contact bounce: 2 ms max.
- · Electrical life :
- At 2A 250VAC 4A 28VDC :

20.000 cycles (10.000 for functions 5, 4-1R, 4-2R)

- At low level (50mV 10mA):

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

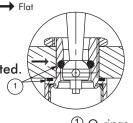
- Case: diallylphthalate (DAP) with plastic external shell (epoxy sealed)
- Actuator: brass, black chrome
- Bushing: brass, black chrome plated
- · Contacts: solid rivet gold plated silver/nickel alloy

SEALING

- Front panel sealing by two O-rings Flatted bush for precise orientation
- Panel seal withstands 1 bar pressure and remains sealed even when the switch is operated.



Splash-proof case



① O-rings

GENERAL SPECIFICATIONS

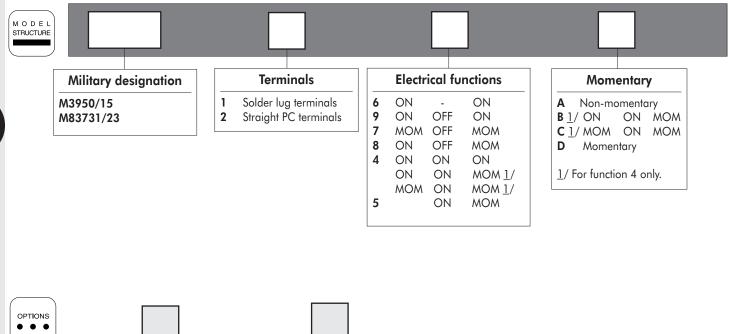
- Torque: 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness: 8 mm (.314) max. 3 mm (.118) min.
- Shock test: 50g 11ms (IEC 68-2-27)
- Vibrations: 10-500 Hz 10g (IEC68-2-6)
- Operating temperature : -40°C to +85°C
- Humidity test: 56 days, 93 % R.H., 40°C (IEC 68-2-3)
- Salt spray test: 96 hours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

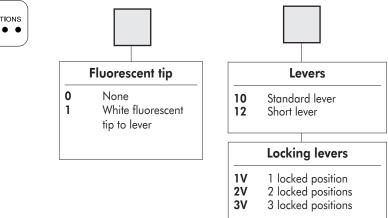
APPROVALS

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 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.

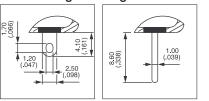


Packaging unit: 20 pieces

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Terminations

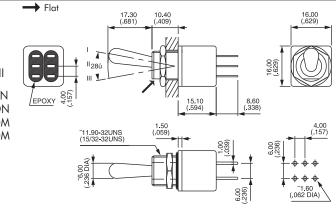
Solder lug or straight PC terminals







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



FLUORESCENT TIP

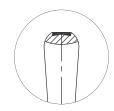
Blank None

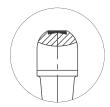
0.38 White fluorescent tip.

Becomes luminous when submitted to ultra-violet rays.

Standard lever

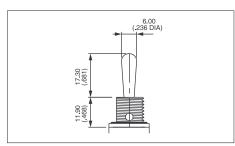
Locking lever



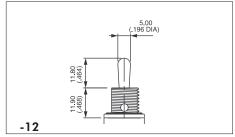


LEVERS / LOCKING LEVERS

Levers



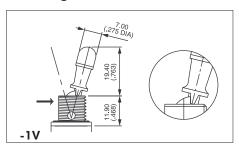
Standard (leave blank)



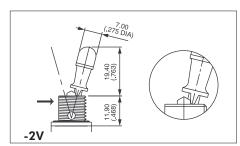
Short lever

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

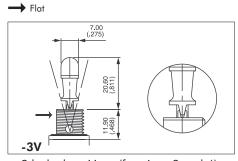
Locking levers



1 locked position (function 6)



2 locked positions (function 6)



3 locked positions (functions 9 and 4)

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PS83-121G A101MD9AB04 A101SD9AB04 A101SDCQ04 A103SD9AQ04 A107TZB04 A123P32YZQ A123S1YZG A127S1YCQ 1
1825192-0 A131S1YZQ A201SCWZB04 A207SYCB04 A208J61ZQ0004 A221K12KAG A221S1YZQ A221T1TCQ A232K12KZQ

A232M1YCQ A323S1CWZQ A423S1CWZG-M8 A423S1YZQ 12149A-3V 12156AX408 12147AGKX679