FARNELL IN ONC

Switches

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Switch Selection

Ratings

All voltage, current and power ratings quoted are for switching resistive loads unless otherwise stated or bracketed.

ie. 16(4)A @ 250V ac = 16A resistive, 4A inductive at 250V ac.

Configurations



Single Pole Single Throw Also known as single pole on-off **Single Pole Double Throw** Also known as single pole changeover

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(SPCO) or single pole on-on. **Double Pole Single Throw** Also known as double pole on-off

Double Pole Double Throw Also known as double pole changeover (DPCO) or double pole on-on

Multi-pole switches, 3 pole, 4 pole etc. 'Normally Open' contacts are operated to 'make' (turn on). NO, NC 'Normally Closed' contacts are operated to 'break' (turn off).

Charcteristics

Momentary Action	The state of the switch will change only whilst the operating force is applied. When released the switch will return to its original state.
Latching Action	The state of the switch changes when an operating force is applied. It will change back to its original state when an additional force is applied. Also known as maintained action.

Examples of Alternative Descriptions

SPDT	Single pole on-on	(2 position)
SPDT - centre off	Single pole on-off-on	(3 position)
SPDT - biased	Single pole on-mom	(2 position)
SPDT - centre off, two ways bias	Single pole mom-off-mom	(3 position)
SPDT - centre off, one way bias	Single pole on-off-mom	(3 position)
 		213136

Subminiature Toggle Switches

Sealed PCB Mounting 50mA@48V ac/dc

Minimum load

Proof voltage

Mechanical life

Contact resistance

Insulation resistance



1µA @ 20mV ac

500V , 1 minute 60000 ops.

10000MR @ 250V dc

<50mR



knitter-ewite

PCB Drilling Plan (Straight terminal, double pole models)

Mftrs List No. ATE 1D-RA = 119-0432 ATE1D = 992-2601 ATE2D = 119-0429 ATE 2D-RA = 119-0433

Operating temperature -20°C	to +80°C			237888/405374
Switch Function	Order Code	1+	Price Each 25+	100+
Straight Terminals SPDT on-on DPDT on-on	992-2601 119-0429	228.00 304.00	185.00 262.00	173.00
Right Angled Terminals SPDT on-on	119-0432	314.00 438.00		
	110 0-100	100.00		



Washable PCB Mounting 0.4VA @ 20V ac/dc









SPDT H=8.13, W=6.22, D=14.3 Type 2



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ITT Industries

DPDT

H=9.14, W=8.13, D=11.8

Vertical Mounting

 $2.54 T_{eff}$

 $T_{\rm eff}$ 106-SPDT H=13.3, W=5.08, D=8.13

Type 2 Horizotal Mounting

PCB drilling plans

Type 1

Horizontal Mounting

Switches

ement available

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		×	 Epoxy sealed terminatic Operating temperature Contact resistance 	0NS -30°C to +85°C <10mB	Electrical life	40000 ops
			Mftrs. List No ET01MD1CBE = ET03MD1CBE = ET05MD1CBE = ET05MD1CBE = ET07MD1CBE =	= 957-4530 ET08MD1CBI = 957-4557 ET01MD1ABI = 957-4565 ET03MD1ABI = 957-4573 ET08MD1ABI	E = 957-4581 ET23M = 957-4590 ET01M = 957-4603 ET03M = 957-4611 ET07M	ID1ABE = 957-4620 ID1AVBE = 957-4638 ID1AVBE = 957-4646 ID1AVBE = 957-4654
Vertical Body H=8.64 Body H W=5 (SPDT), 9.1 (DPDT) W=8.1, D	Horizontal =5 (SPDT), 9.1 (DPDT) =9.1 (SPDT), 11.6 (DPDT) V	Vertical Threaded Bush Body H=8.64 V=5 (SPDT), 9.1 (DPDT)				

300,000 products, stocked and ready to despatch

C = CYAN M = Magenta Y = Yellow B = Black/THAI