E-T-A Simulator switch, magnetic operation 9510-...

Description

Single pole, miniaturised aircraft simulator switch with extremely fast magnetic trip time. Blade, screw and wire wrap terminals. Aircraft style threadneck and push/pull button with white trip indicator ring. Current rating marked on the push button according to customer's request by adhesive labels or marking inserts.

US patent number: US 7,038,562 B1
US patent number: US 6,490,141 B2 (moulded threadneck)

Typical applications

Simulators.

Ordering information

Type No.
9510 switch with magnetic instantaneous trip for flight simulators
Mounting method and style
G threadneck mounting with standard push button
Threadneck design
1 M12x1x6.3
2 7/16-32UNx6.3
Number of poles
1 single pole
Accessories for threadneck
2 hex nut M12x1, aluminium, serrated lock washer ø12.1/ø17.2, fitted
3 hex nut 7/16-32UN (aluminium), serrated lock washer 11.3/14.9, fitted
Terminal configuration
J screw terminals with inch thread
1 6-32UNC-2B, silver plated bent 45° inwards
3 6-32UNC-2B, silver plated, with socket, bent 45° inwards
P blade terminals
1 A6.3x0.8 DIN 46244, silver plated
W wire wrap terminal
4 pin size 1.2x1.2 EN 60352-1, gold plated, with socket
Rated voltage
F0 DC 24 V
F1 DC 28 V
Accessories (terminal screws)
B Phillips screw 6-32UNC-2Ax4.8 fitted (MS 51957-25)
Z without accessories
Accessories (terminal washers)
0 without accessories
2 3.6 split washer fitted (MS 35338-136)
Internal circuit
R2 with logic diode
Colour of the push button
S black
A green, for marking insert
B black, for marking insert
0 without marking
1 hot-stamped marking, can be read when locating pin is above
9 without marking insert
Current ratings
0.5...150 A

9510 - G 2 1 3 - J 1 F1 - B 0 R2 S 1 - 5 A ordering example

9510-...

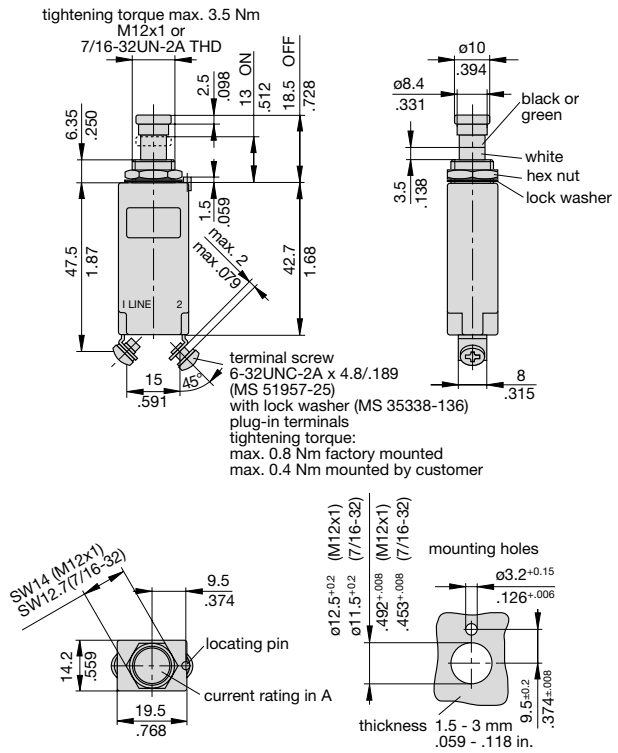
Technical data

Voltage rating (Other voltage ratings upon request)	**DC 24 V**	**DC 28 V**
Trip current	< 170 mA	< 200 mA
Trip time	< 25 ms	< 25 ms
Min. switching voltage at +23 °C/+73.4 °F at +60 °C/+140 °F	 DC 22 V DC 24 V	 DC 25 V DC 28 V
Internal resistance	approx. 153 Ω	approx. 153 Ω

Typical life	10,000 operations at rated voltage
Temperature range	-30...+60 °C (-22...+140 °F)
Insulation resistance	> 100 MΩ (DC 500 V)
Degree of protection (IEC 60529)	operating area IP40 terminal area IP00
Vibration (sinusoidal)	3 g (57-500 Hz), ± 0.23 mm (10-57 Hz) to DIN IEC 60068-2-6, test Fc 10 cycles/frequency axis
Shock	5 g (11 ms), to DIN IEC 60068-2-27, test Ea
Humidity	240 hours at 95 % RH, 40 °C to DIN IEC 60068-2-3, test Ca
Mass	23 g without hardware 26 g with hardware

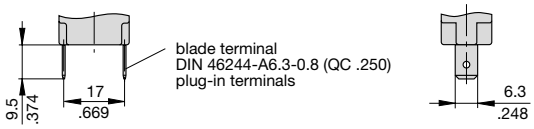
Dimensions

9510-G...-J1..-B2....

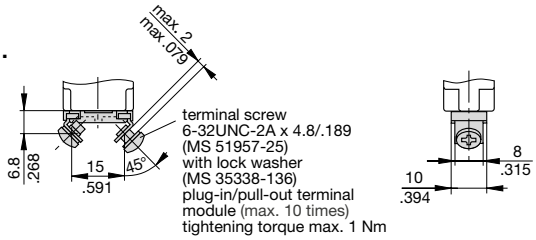


Other main terminal designs

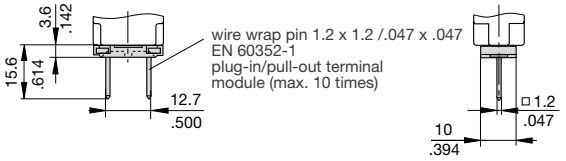
-P1...



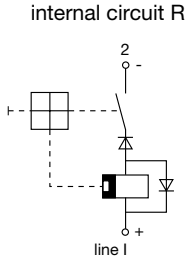
-J3...



-W4...



Internal connection diagram



This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

Accessories

Label (black) for push/pull button (S0)

Part number	Rated current (A)
Y 307 082 01	0.5
Y 307 082 02	1/2
Y 307 082 03	1
Y 307 082 04	1.5
Y 307 082 05	1 1/2
Y 307 082 06	2
Y 307 082 07	3
Y 307 082 08	5
Y 307 082 09	7.5
Y 307 082 10	7 1/2
Y 307 082 11	10
Y 307 082 12	15
Y 307 082 13	20
Y 307 082 14	25
Y 307 082 15	30
Y 307 082 16	35
Y 307 082 17	6
Y 307 082 18	40
Y 307 082 19	50
Y 307 082 20	60
Y 307 082 21	70
Y 307 082 22	75
Y 307 082 23	80
Y 307 082 24	90
Y 307 082 25	100
Y 307 082 26	120
Y 307 082 27	125
Y 307 082 28	150
Y 307 082 29	2.5
Y 307 082 30	2 1/2
Y 307 082 31	3 1/2
Y 307 082 32	R
Y 307 082 33	5.5
Y 307 082 34	17
Y 307 082 35	4

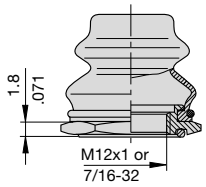
Plug-in screw terminal,
bent at 45° inwards (2 pcs needed per unit)
Y 307 187 02 terminal silver plated
Y 304 508 02 Phillips screw 6-32 UNC-2Ax4.8 (MS 51957-25)
Y 304 509 01 split washer (MS 35338-136)

Plug-in blade terminal (2 pcs needed per unit)
Y 307 202 02 P10 terminal silver plated

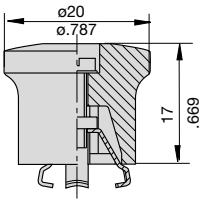
Plug-in/pull-out screw terminals with socket,
bent at 45° inwards
X 222 173 11 terminals silver plated

Plug-in/pull-out wire wrap terminals with socket
X 222 174 12 terminals gold plated

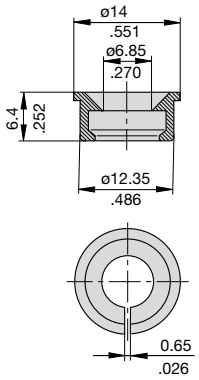
Splash cover/hex nut assembly with O ring (IP66 and IP67)
(approved to VG 95345, part 23)
X 200 801 03 matt black finish nut M12x1x1.8, black cover
X 200 801 08 nickel plated nut M12x1x1.8, transparent cover
X 200 801 09 matt black finish nut 7/16-32x1x1.8, black cover
X 200 801 10 matt black finish nut 7/16-32x1x1.8, transparent cover
X 200 801 12 with blackened nut and transparent cover



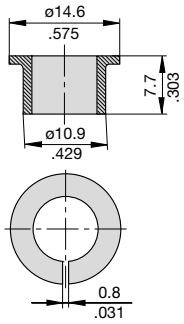
Actuator extension (black) to be fitted on the push button
(approved to VG 95345, T23)
X 200 803 01



Identification collar to be snapped on the push button
Y 307 004 01 black
Y 307 004 02 white
Y 307 004 03 red
Y 307 004 04 green
Y 307 004 05 blue



Lock out ring to block the push button in OFF position
Y 307 005 01 red
Y 307 005 02 black



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Accessories

Hex nut M12x1
Y 300 116 04

Hex nut 7/16-32
Y 304 506 03

Lock washer Ø12 / Ø15
Y 300 118 03

Serrated lock washer Ø12.1 / Ø17.2
Y 302 911 01

Toothed washer Ø11.3 / Ø14.9 (MS 35333-141)
Y 304 507 01

Front plate with mounting thread 6-32UNC-2B for threadneck 7/16-32UN
Y 301 516 21

Threaded sleeve
Y 307 281 04

Extracting tool of marking insert
Y 307 301 01

Marking inserts (push button configuration A or B)		
hot stamped		
black	**green**	**current rating (A)**
Y 307 280 01	Y 307 280 02	without
X 222 175 01	X 222 176 01	0.5
X 222 175 02	X 222 176 02	1/2
X 222 175 03	X 222 176 03	1
X 222 175 04	X 222 176 04	1.5
X 222 175 05	X 222 176 05	1 1/2
X 222 175 06	X 222 176 06	2
X 222 175 07	X 222 176 07	3
X 222 175 08	X 222 176 08	5
X 222 175 09	X 222 176 09	7.5
X 222 175 10	X 222 176 10	7 1/2
X 222 175 11	X 222 176 11	10
X 222 175 12	X 222 176 12	15
X 222 175 13	X 222 176 13	20
X 222 175 14	X 222 176 14	25
X 222 175 15	X 222 176 15	30
X 222 175 16	X 222 176 16	35
X 222 175 17	X 222 176 17	6
X 222 175 18	X 222 176 18	40
X 222 175 19	X 222 176 19	50
X 222 175 20	X 222 176 20	60
X 222 175 21	X 222 176 21	70
X 222 175 22	X 222 176 22	75
X 222 175 23	X 222 176 23	80
X 222 175 24	X 222 176 24	90
X 222 175 25	X 222 176 25	100
X 222 175 26	X 222 176 26	120
X 222 175 27	X 222 176 27	125
X 222 175 28	X 222 176 28	150
X 222 175 29	X 222 176 29	2.5
X 222 175 30	X 222 176 30	2 1/2
X 222 175 31	X 222 176 31	7
X 222 175 32	X 222 176 32	4
X 222 175 33	X 222 176 33	3.5
X 222 175 34	X 222 176 34	3 1/2
X 222 175 35	X 222 176 35	1/4
X 222 175 36	X 222 176 36	3/4
X 222 175 37	X 222 176 37	8
X 222 175 38	X 222 176 38	14
X 222 175 39	X 222 176 39	45
X 222 175 40	X 222 176 40	R
X 222 175 41	X 222 176 41	0.75
X 222 175 42	X 222 176 42	24

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved.Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

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Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru