knitter-switch

Product Change Notice P10-2022

Products affected:

ASL 1 E, ASL 1 D-RA, ASL 1 E-RA

ASL 2 E, ASL 2 D-RA, ASL 2 E-RA

Effectivity date:

after current stock is sold

Details:

Due to relocation of production minor changes on the product were implemented.

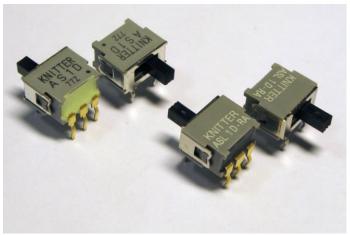
Marking is changed to laser print and is displaying the correct part number.

There is no other change affecting the usability of the component.

For comparison, please find both old and new data-sheet attached.

Drawing numbers old / new are:

ASL 1 E: 30 08 79 / 30 48 29 ASL 1 D-RA: 30 08 80 / 30 48 31 ASL 1 E-RA: 30 08 81 / 30 48 30 ASL 2 E: 30 08 83 / 30 48 28 ASL 2 D-RA: 30 08 84 / 30 48 27 ASL 2 E-RA: 30 08 85 / 30 48 26



Old version

New version

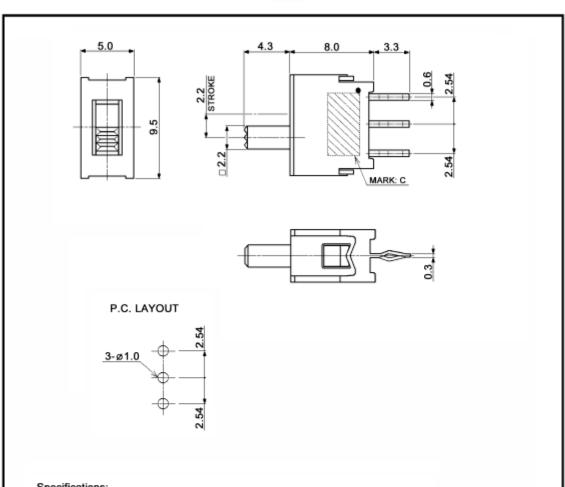
knitter-switch - Baldham, September 2022

Oliver Kluj

Technical Director

Ollin Uly

knitter-swi



Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1µA, 20mV AC/DC

Contact resistance:

50mOhm max. at 1.5mA, 200µA AC

Insulation resistance:

500MOhm min. at 250V DC

Dielectric strength:

250V AC for 1 minute

Temperature range:

-20°C to +80°C

Mechanical life:

max. rating: 10 000 cycles; min. rating: 50 000 cycles

Operating force:

70 - 500gf

Mounting:

on pc-board

Soldering conditions: Switching function:

auto-soldering: max.: 260 +/-5°C, 5 +/-1sec. on - off - on

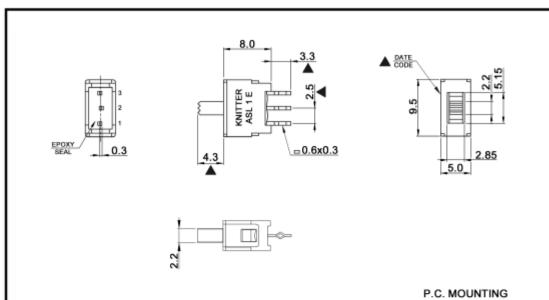
Material:

Terminal / contact: phosphor bronze, gold plated



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SWITCH FUNCTION

Madal	POS. 1	POS. 2	POS. 3
Model No.	#	4	#
ASL 1 E	ON	OFF	ON
Term. Conn.	2-1	OPEN	2-3



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC

Contact resistance:

min. 1 µA, 20 mV AC/DC

Insulation resistance:

50 mOhm max. (at 1.5mA, 200 μV DC)

Dielectric strength:

500 MOhm min. at 500 V DC

Operating temperature:

500 V AC for 1 minute

-20°C to +80°C

Mechanical life:

40 000 cycles min.

Operating force:

70-500 gf

Soldering conditions:

pre-heat: max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec.

Material:

Actuator: PBT, black

Frame: brass, nickel plated

Case: glass filled nylon 6/6, flame retardant,

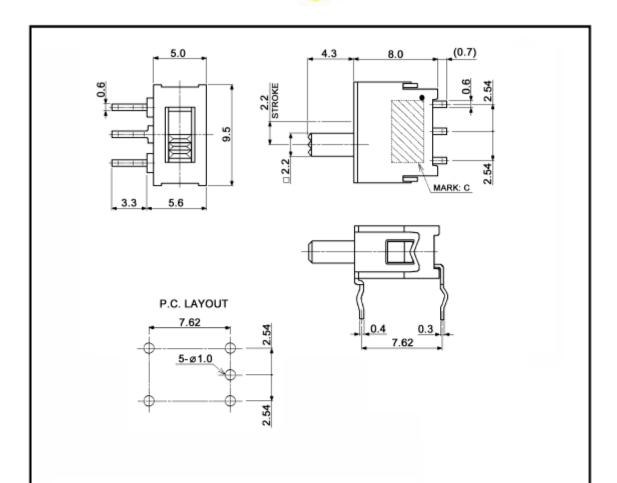
heat stabilized (UL94V-0), colour: grey

Contact / terminals: phosphor bronze, gold plated over nickel

Terminal seal: epoxy

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	Modifications	Date	Name						

nitter-switc



Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1 μ A, 20mV AC/DC 50mOhm max. at 1.5mA, 200 μ A AC

Contact resistance:

Insulation resistance:

500MOhm min. at 250V DC

Dielectric strength:

250V AC for 1 minute

Temperature range:

Mechanical life:

-20°C to +80°C

max. rating: 10 000 cycles; min. rating: 50 000 cycles 70 - 500gf

Operating force: Mounting:

on pc-board

Soldering conditions: Switching function:

auto-soldering: max.: 260 +/-5°C, 5 +/-1sec.

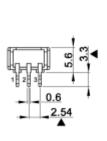
Material:

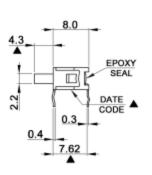
on - on Terminal / contact: phosphor bronze, gold plated

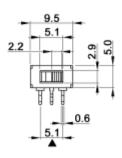


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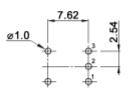




P.C. MOUNTING

SWITCH FUNCTION

Mandal	POS. 1	POS. 2
Model No.	#	#
ASL 1 D	ON	ON
Term. Conn.	2-1	2-3



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC min. 1 µA, 20 mV AC/DC

Contact resistance:

50 mOhm max. (at 1.5mA, 200 μV DC) 500 MOhm min. at 500 V DC

Insulation resistance:

Dielectric strength: Operating temperature: 500 V AC for 1 minute -20°C to +80°C 40 000 cycles min.

Mechanical life: Operating force:

70-500 gf

Soldering conditions:

pre-heat: max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec.

Material:

Actuator: PBT, black

Frame: brass, nickel plated

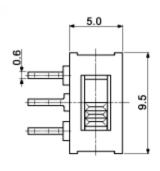
Case: glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0), colour: grey

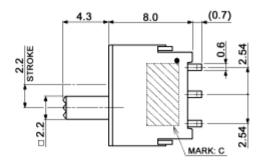
Contact / terminals: phosphor bronze, gold plated over nickel

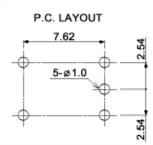
Terminal seal: epoxy

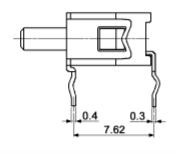
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Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1µA, 20mV AC/DC

Contact resistance:

50mOhm max. at 1.5mA, 200µA AC

Insulation resistance: Dielectric strength:

500MOhm min. at 250V DC

Temperature range:

250V AC for 1 minute -20°C to +80°C

Mechanical life:

max. rating: 10 000 cycles; min. rating: 50 000 cycles 70 - 500gf

Operating force: Mounting:

on pc-board

Soldering conditions: Switching function:

auto-soldering: max.: 260 +/-5°C, 5 +/-1sec.

on - off - on

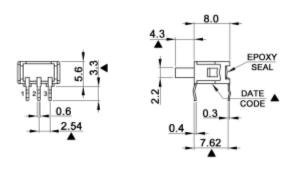
Material:

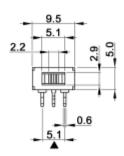
Terminal / contact: phosphor bronze, gold plated



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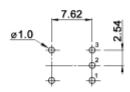


P.C. MOUNTING

POS. 1 POS. 3 POS. 2 Model Æ Æ Æ

No. ASL 1 E ON OFF ON Term. 2-1 OPEN 2-3 Conn.

SWITCH FUNCTION



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC

min. 1 µA, 20 mV AC/DC

Contact resistance:

50 mOhm max. (at 1.5mA, 200 μV DC)

Insulation resistance:

500 MOhm min. at 500 V DC

Dielectric strength:

500 V AC for 1 minute

Operating temperature:

-20°C to +80°C

Mechanical life:

40 000 cycles min.

Operating force:

70-500 gf

Soldering conditions:

pre-heat max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec. Actuator: PBT, black

Material:

Frame: brass, nickel plated

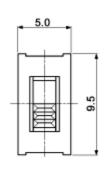
Case: glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0), colour: grey

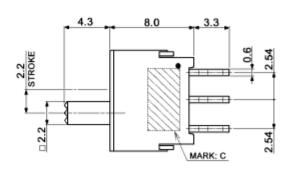
Contact / terminals: phosphor bronze, gold plated over nickel

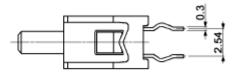
Terminal seal: epoxy

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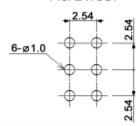
knitter-switch







P.C. LAYOUT



Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1µA, 20mV AC/DC

Contact resistance:

50mOhm max. at 1.5mA, 200µA AC

Insulation resistance:

500MOhm min. at 250V DC

Dielectric strength:

250V AC for 1 minute -20°C to +80°C

Temperature range: Mechanical life:

max. rating: 10 000 cycles; min. rating: 50 000 cycles

Operating force:

70 - 500gf

Mounting:

on pc-board

Soldering conditions:

auto-soldering: max.: 260 +/-5°C, 5 +/-1sec.

Switching function:

on - off - on

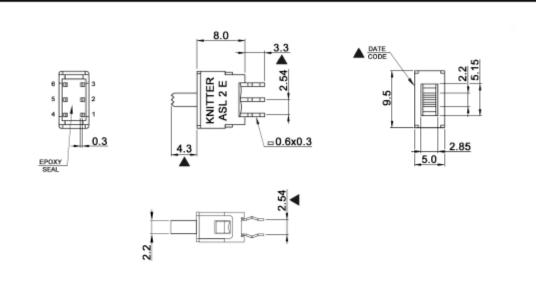
Material:

Terminal / contact: phosphor bronze, gold plated



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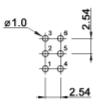
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SWITCH FUNCTION

Madal	POS. 1	POS. 2	POS. 3
Model No.	#	#	#
ASL 2 E	ON	OFF	ON
Term. Conn.	2-1, 5-4	OPEN	2-3, 5-6

P.C. MOUNTING



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC min. 1 µA, 20 mV AC/DC

Contact resistance:

50 mOhm max. (at 1.5mA, 200 μV DC)

Insulation resistance:

500 MOhm min. at 500 V DC

Dielectric strength:

500 V AC for 1 minute

Operating temperature:

-20°C to +80°C

Mechanical life:

40 000 cycles min.

Operating force:

70-500 gf

Soldering conditions:

pre-heat: max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec.

Material:

Actuator: PBT, black

Frame: brass, nickel plated

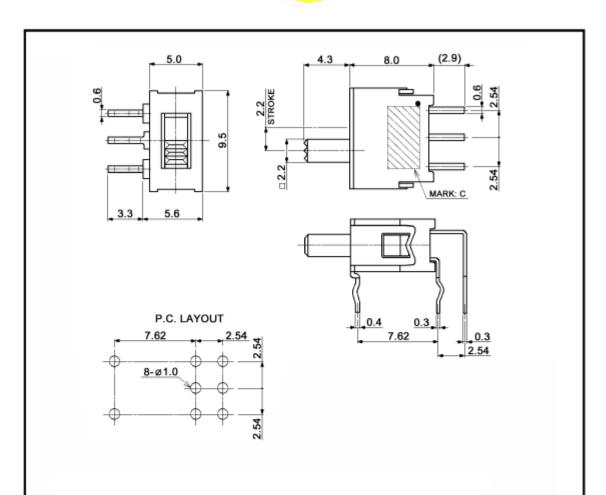
Case: glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0), colour: grey

Contact / terminals: phosphor bronze, gold plated over nickel

Terminal seal: epoxy

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Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1µA, 20mV AC/DC

Contact resistance:

50mOhm max. at 1.5mA, 200µA AC

Insulation resistance:

500MOhm min. at 250V DC

Dielectric strength:

250V AC for 1 minute

Temperature range:

-20°C to +80°C

Mechanical life:

max. rating: 10 000 cycles; min. rating: 50 000 cycles

Operating force:

70 - 500gf

Mounting: Soldering conditions: Switching function: on pc-board auto-soldering: max.: 260 +/-5°C, 5 +/-1sec.

on - on

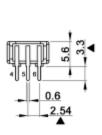
Material:

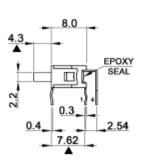
Terminal / contact: phosphor bronze, gold plated

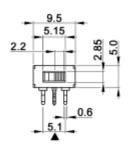


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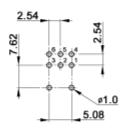




SWITCH FUNCTION

Model No.	POS. 1	POS. 2		
	4	#		
ASL 2 D	ON	ON		
Term. Conn.	2-1, 5-4	2-3, 5-6		

P.C. MOUNTING



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC min. 1 µA, 20 mV AC/DC

Contact resistance:

50 mOhm max. (at 1.5mA, 200 µV DC)

Insulation resistance:

500 MOhm min. at 500 V DC

Dielectric strength:

Operating temperature:

500 V AC for 1 minute -20°C to +80°C

Mechanical life:

40 000 cycles min.

Operating force:

70-500 gf

Soldering conditions:

pre-heat: max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec.

Material:

Actuator: PBT, black

Frame: brass, nickel plated

Case: glass filled nylon 6/6, flame retardant,

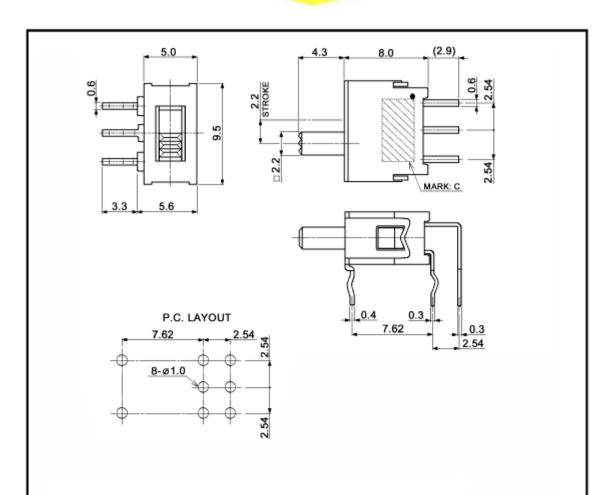
heat stabilized (UL94V-0), colour: grey

Contact / terminals: phosphor bronze, gold plated over nickel

Terminal seal: epoxy

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Specifications:

Contact rating:

max. 50mA, 48V AC/DC; min. 1µA, 20mV AC/DC

50mOhm max. at 1.5mA, 200µA AC Contact resistance:

500MOhm min. at 250V DC Insulation resistance: 250V AC for 1 minute Dielectric strength:

Temperature range: -20°C to +80°C

Mechanical life: max. rating: 10 000 cycles; min. rating: 50 000 cycles

Operating force: 70 - 500gf

Mounting:

Soldering conditions:

Switching function:

Material:

on pc-board auto-soldering: max.: 260 +/-5°C, 5 +/-1sec.

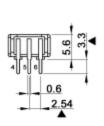
on - off - on

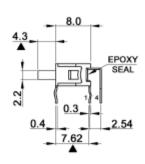
Terminal / contact: phosphor bronze, gold plated

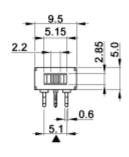


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Modifications	Date	Name						

knitter-switc



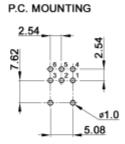






SWITCH FUNCTION

Mandal	POS. 1	POS. 2	POS. 3	
Model No.	#	4	#	
ASL 2 E	ON	OFF	ON	
Term. Conn.	2-1, 5-4	OPEN	2-3, 5-6	



Specifications:

Contact rating:

max. 50 mA, 48 V AC/DC

min. 1 µA, 20 mV AC/DC

Contact resistance:

50 mOhm max. (at 1.5mA, 200 μV DC)

Insulation resistance:

500 MOhm min. at 500 V DC

Dielectric strength: Operating temperature: 500 V AC for 1 minute

Mechanical life:

-20°C to +80°C

Operating force:

40 000 cycles min.

70-500 gf

Soldering conditions:

pre-heat: max. 100°C, max. 60 sec.

wave: max. 260°C, max. 5 sec.

Material:

Actuator: PBT, black

Frame: brass, nickel plated

Case: glass filled nylon 6/6, flame retardant,

heat stabilized (UL94V-0), colour: grey

Contact / terminals: phosphor bronze, gold plated over nickel

Terminal seal: epoxy Compliance: RohS III (2015/863/EU)

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