

knitter-switch

New Product-Generation Notification

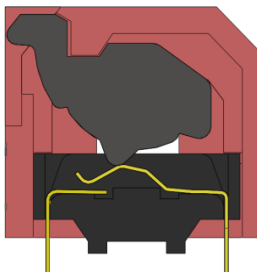
Old version (discontinued): DBP 2002, DBP 2003, DBP 2004, DBP 2005, DBP 2006, DBP 2007, DBP 2008, DBP 2009, DBP 2010, DBP 2012

New version: DBP 2002 N, DBP 2003 N, DBP 2004 N, DBP 2005 N, DBP 2006 N, DBP 2007 N, DBP 2008 N, DBP 2009 N, DBP 2010 N, DBP 2012 N

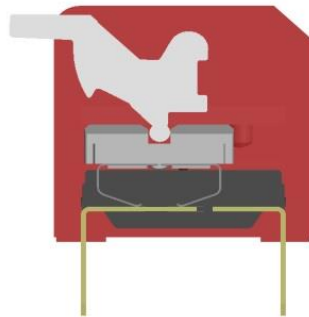
Effective date: after current stock is sold out

For several reasons, contact system and case were revised.
In order to allow clear identification, part numbers of new version end with "N".

Soldering with lever in ON position may deform movable parts and possibly cause reliability problems. Therefore the contact structure was revised:



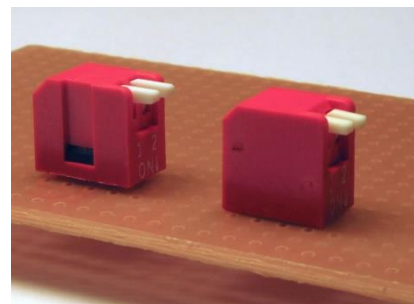
Up to now (DBP 2xxx)



From now on (DBP 2xxx N)

The new part can be soldered in both ON and OFF position.
Additionally, the change to bifurcated movable contact improves reliability.
Further, stand-offs were added to the case edges to improve the alignment of case and PCB.
All electrical spec remains unchanged. Case size differs slightly, see attached data-sheets.

To distinguish old and new model is very easy by appearance.
Note the black square cut-out in the sidewall.
(representative picture, not binding regarding lever length)



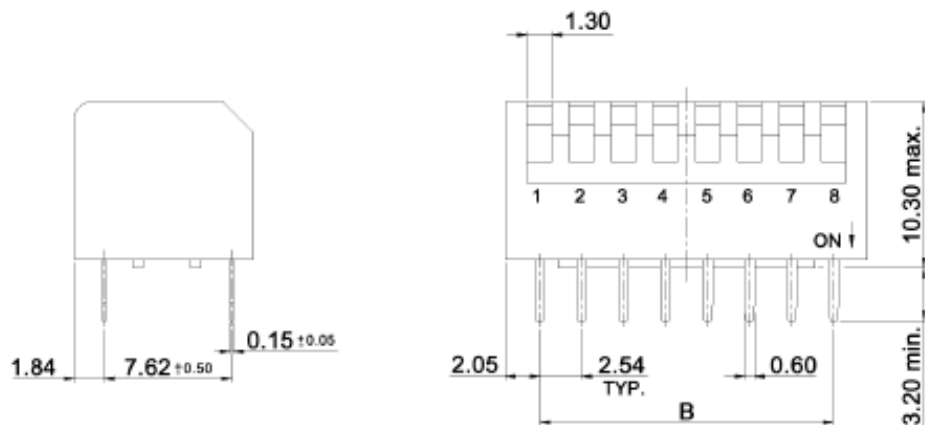
Old

New

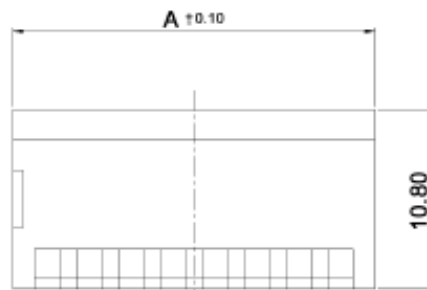
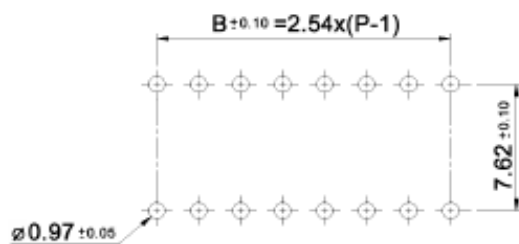
knitter-switch, November 2018

Oliver Kluj
Technical Director

knitter-switch



P.C.B. LAYOUT



Specifications:

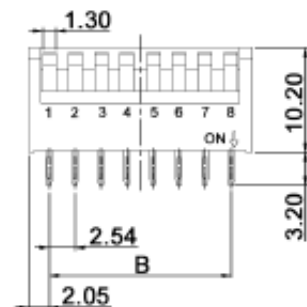
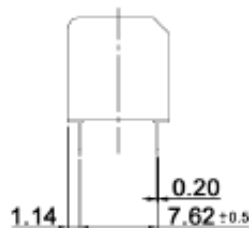
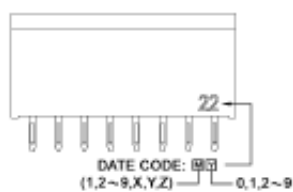
Contact rating: non-switching: 100mA, 50V DC
 switching: 25mA, 24V DC
Contact resistance: 50mOhm max.
Insulation resistance: 100MOhm min. at 500V DC
Dielectric strength: 500V AC for 1 minute
Operating temperature: -20°C to +70°C
Storage temperature: -40°C to +85°C
Mechanical life: 2 000 cycles
Electrical life: 2 000 cycles per switch 24V DC, 25mA
Operating force: 400gf max.
Soldering conditions: wave soldering: 260°C max., 5sec.
Material: Base: UL94V-0 PBT thermoplastic, black
 Cover: UL94V-0 PBT thermoplastic, red
 Actuator: UL94V-0 PBT thermoplastic, white
 Contact: phosphor bronze, gold plated over nickel

xx	Poles	A	B
02	2	6.64	2.54
03	3	9.18	5.08
04	4	11.72	7.62
05	5	14.26	10.16
06	6	16.80	12.70
07	7	19.34	15.24
08	8	21.88	17.78
09	9	24.42	20.32
10	10	26.96	22.86
12	12	32.04	27.94

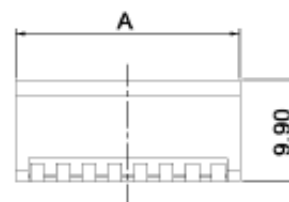
Compliance: RohS II (2011/65/EU)

Tolerances: ±0.20mm		Date	Name	DBP 20xx
		03/11	dr	
		knitter-switch		30 23 19
Modifications		Date	Name	Page 1/2

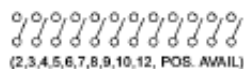
knitter-switch



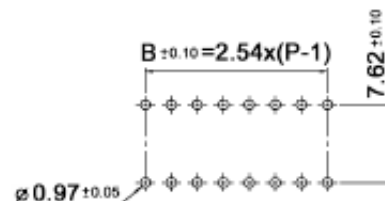
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SCHEMATIC



P.C.B. LAYOUT



Specifications:

Contact rating:	non-switching: 100mA, 50V DC switching: 25mA, 24V DC
Contact resistance:	50mOhm max.
Insulation resistance:	100MOhm min. at 500V DC for 1 minute +/-5sec.
Dielectric strength:	500V AC for 1 minute
Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Electrical life:	2 000 cycles
Operating force:	400gf max.
Soldering conditions:	260 +/-5°C, 5 +/-1sec.
Material:	Lever / slider: thermoplastic PBT UL94V-0, white Cover: thermoplastic PBT UL94V-0, red Contact: copper alloy, gold plated Terminal: brass, gold plated Base: thermoplastic PA66 UL94V-0, black

Compliance: RohS II (2011/65/EU)

Tolerances: ±0.2mm	Date	Name
	10/16	dr

DBP 20xx N

knitter-switch

30 36 92

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Modifications	Date	Name
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