



MANUFACTURER OF SAFETY MATERIAL
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DECLARATION OF CONFORMITY

This document is the conformity declaration concerning safety switches and relays, conform to the Directive 2004/108/CE.

DIGITAL SWITCHES AND LIGHTING

Range	Standards	Approvals
KB100 series	EN 1672-2:2005 IEC 60335 (glow wire test)	CE

This range of products is designed to replace mechanical push-button used for home, building or hospital.

All the products are designed and manufactured following UL/CSA regulation.

Products must be used following diagram and directives described in our data sheet.

Noisy le Grand, 05th aug 2014

For BTI,
Christophe PAYS

Technical datasheet KB100A

Thank you for your confidence in BTI products.
This product has been designed and manufactured under the highest quality standards.

1. Application field

The KB100 series is a range of touch-sensitive buttons with LED light. The 100mm size has been developed to replace mechanical buttons and standard piezo in residential premises. KAPIX is a technology 0 force and without mechanical action that meets the criteria «no-fatigue». "clac" effect for mechanical action simulated. The product is resistant to vandalism. The product is mounted directly into a mounting box or wallboard. It is powered by 230Vac and provides a contact RT 8A max or about 3.5 A halogen lamp. The sensitive surface is backlit in white while OFF, amber or blue light sparkling at high-speed for a greater visual perception by persons with low vision. In ON mode the backlight can operate in a different color upon request. It is also possible to have several types of pictograms.

2. Mounting instructions of KB100A for BA13

- Drill hole using a 51mm hole-saw,
- Fix the box in the wallboard and wire the cables,
- Screw the mounting body either in the BA13 wallboard or in the box,
- Connect both positive and neutral cables in the box on the wiring terminal,
- Clip the cap with the sensitive surface on the circular part.

3. Operation mode

Touch	Contact NO	Contact NC	Led ring
No	open	close	illuminate
Yes	close	open	no

Replace a switch : choose "T" option

Replace a push button : choose the "M" option

Replacing a timer button : Select the "D1" option

Avoid rubbing the trigger button: choose the "D2" option

Standard times can be changed on request.

An indelible symbol can be printed on the face touch, please contact us for templates.

4. Item code

KB100

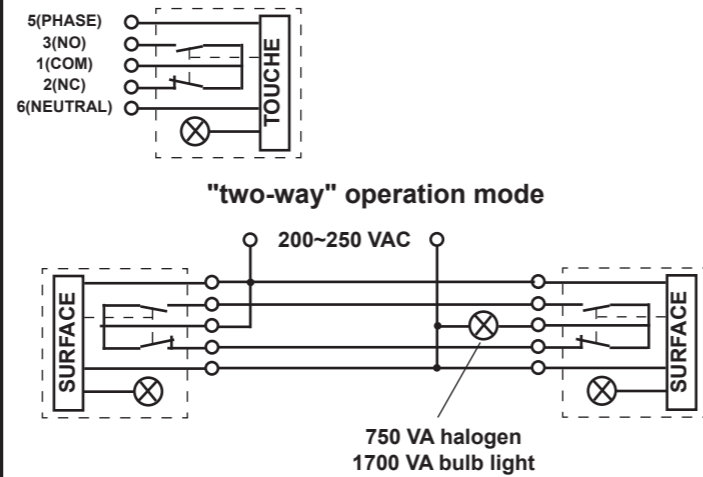
- BC=white cap
- NR=black cap
- JE=yellow cap
- RE=red cap
- M=momentary (ON/ON)
- T=flip-flop(ON/OFF)
- D1=OFF delayed
- D2=ON delayed
- BC=white backlight
- BU=blue backlight
- AE= amber backlight
- 1RT=contact NO+NC
- A=residential premise

Note: When turned on, the system analyzes the environment and makes it a benchmark. If the finger is applied to the sensor surface prior to and during the power-up, it will be taken as a reference therefore will not be detected. If this happens, simply turn it off and on.

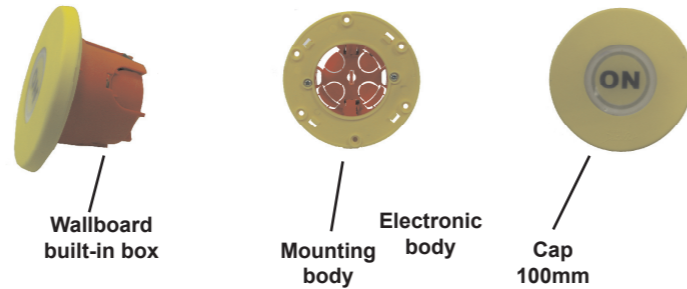
5. Technical features

Supply voltage	200~250 VAC / 50HZ
Power consumption	3 VA max (2,5 VA typical)
Output contact	1RT : 1700 VA
Terminal block	up to 1,5 mm ²
Protection class	IP54
Dimensions: diam x Height	D100 x H24mm
Weight	75 g
Life expectancy	100.10 ⁶
Operating temperature	-25 °C to +60 °C

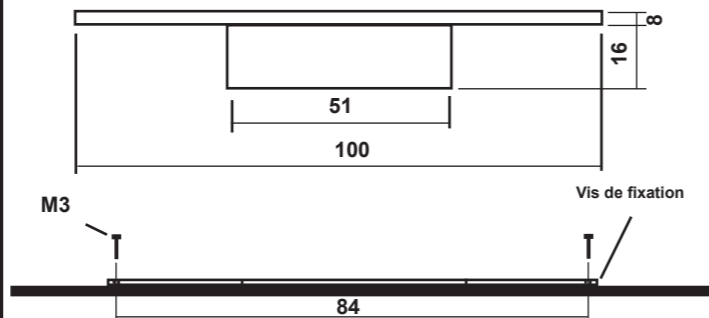
6. Wiring



7. Mounting



8. Dimensions



Specifications may change without notice

SENSITIVE SURFACE TR 90 UV

Resistance to:

Ballpoint pen (scratch, no ink adherence)	very good
Scratch with a metallic object (ex. key)	good
Bubble gum	very good
Cigarette	very good
(960° glow wire test, which is the reason why this test is requested. Knowing that a cigarette burn is approx. 750 to 800°C according to the tobaccos).	
Pocket knife	good
Screwdriver	very good
Bottle cap	good
Cutter	good

HOUSING GRIVORY TS V0

Resistance to:

Ballpoint pen (scratch, no ink adherence)	good
Scratch with a metallic object (ex. key)	moyen
Bubble gum	very good
Cigarette	very good
(incandescent 860°C wire, always up to a cigarette temperature). Please note that all the plastic compounds will be burned by a cigarette, but this confirms that the product will not burn immediately after the contact with the cigarette).	
Pocket knife	medium
Screwdriver	medium
Bottle cap	medium
Cutter	medium

The GRILAMID TR 90 is very hard on the surface and is less subject to scratches than the standard polyamide compounds.

The TS V0 is a bit less resistant to the scratches.

Please note : the hotter the objects will be, the more hardness of the surface will be important.

On the other hand, rigidity will be increased but the parts will be more breakable.

In the cosmetic sector, the parts are varnished. It is a question of hardening the surface of the parts by the application of a more or less rigid varnish so as to reduce the impact of the objects.

Also, the visors of helmets motor bike are injected out of PC and undergo then a varnishing to increase their resistance to the scratches.

In a general way, the polyamides, with their strong elongation at fracture, will be with difficulty tranchables with a blade but they will be striped anyway.

Characteristics of the screwless terminal

Contrary to a screw connector, our choice was made on an anti-vibration model, thanks to special powerful springs. The maximum section of the wire is 1.5 mm², flexible or rigid.