



MANUFACTURER OF SAFETY MATERIAL

Z.I. des Richardets
34, Allée du Closeau
93160 Noisy Le Grand
France



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
KOB508	IEC 60335 (glow wire test)	

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, 28th aug 2010

For BTI,
Mrs Michèle LEFOULON ,

PROCESS ACOTOM®



Technical datasheet of KAPIX KOB 508T

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

1/ Application field

KOB508 is a programmable LED multifunction optical button contactless. « Zero force » KOB508 has been studied and designed to remove or reduce pains due to carpal tunnel syndrome and others muscular disorders caused by repetitive movements. A luminous ring will indicate the contacts switched. Contactless detection will be activated from 5mm till 20mm (depends on the color and the movement). It is manufactured with momentary action as standard version. Nevertheless, using KOB SOFT- (suitable win2X/xp/7), wiring the button to USB Key SC51 (sold separately), it is possible to program different actions such as flip-flop, or delayed on (1s to 999s)-delay off (1s to 999s).

2/ Mounting instructions

The button is made of 2 parts : fixing nut and mounting flange to fix it.

- 1/ Mark and drill the holes for the flange
- 2/ fix the flange and map out the hole
- 3/ take off the flange and drill the hole with D52mm.

3/ Operating mode

Place your hand on the transparent surface and the luminous ring will illuminate. While your hand is on the button the NO/NC button will switch. When your hand is away, the luminous ring will turn off and the contacts will come back to their original status. Our system has 3 embedded beams to reach a better reliability of detection, despite the use of a glove for instance.

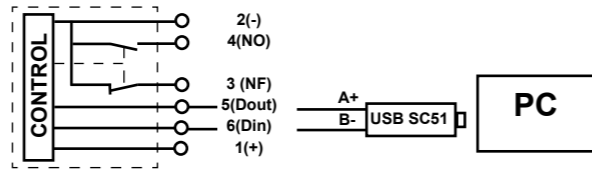
4/ Order references

- KOB508T - NR : black housing
Other color upon request
- M : momentary action as standard, (Toggle-delayed action possible with KOB soft+USB SC51 key)
- B : Blue
W : White
R : Red
G : Green
A : Amber
- 2OP : 2 NO + automatic LED control
2FP : 2 NC + automatic LED control
1OFP : 1 NO+1NC (change over contact) + automatic LED control

5/ Technical features

Supply voltage	17 VDC to 30 VDC
Power consumption	60 mA
Output contact	2 x NF PNP / 200 mA
Terminal block	screwless terminal block 1,5mm ² max
Protection class	IP 67
Size	D100 x H24mm
Weight	75 g
Life time expectancy	50 000 hours
Operating temperature	-25 °C to +60 °C

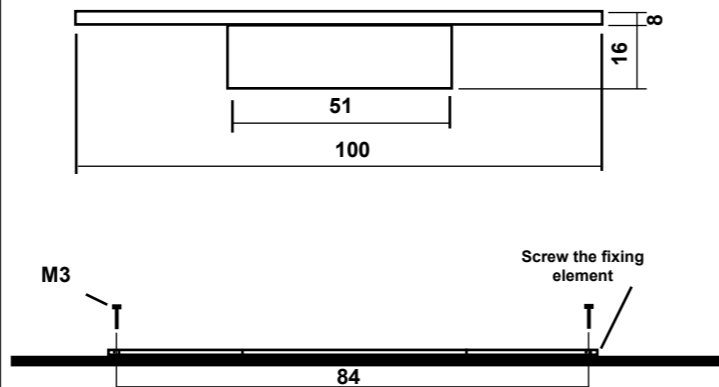
6. Wiring



7. Button Configuration

- 1- Connect the SC51 key to the button
- 2- Insert the SC51 key into the USB port of the PC
- 3- Turn on the power to the button
- 4- Start the KOB SOFT and choose the COM port displayed in the menu "PORT"
- 5- Choose the configuration and timing for the type delayed start/sleep timer. Click on "Send"
- 6- When the programming is complete, the three sectors of the button will light successively
- 7- Disconnect SC51 key and exit the software.

8. Dimensions



Our plastic

Strength

Resistance ballpoint pen (scratch , ink not adhered)	excellent
Scratch by metal object like a key	good
Chewing gum	excellent
Cigarette	excellent
Glow Wire 960 °C	excellent
Cigarette burn is about 750 to 800 ° C.	excellent
Pocket knife	good
Screwdriver	excellent
Bottle capsule	good
Cutter	good

Chemical resistance

Butter	excellent
Benzene	excellent
Sodium bicarbonate	excellent
Beer	excellent
Lemon juice	excellent
Fruit juice	excellent
Milk	excellent
Salt	excellent
Sodium chloride	excellent
Fuel oil (Esso unleaded)	excellent
Glycol	excellent
Hydraulic oil	excellent
Silicone oil	excellent
Know lubricant	excellent
Oils and fats	excellent
Engine oil	excellent
Soda	excellent
Trichlorethylene	acceptable
Pure chlorine	Intolerable
Calcium chloride	intolerable
Chlorinated water <5%	reduced contact time
Bleach 13%	reduced contact time
Ethylene chloride	reduced contact time

GRILAMID TR 90 offers outstanding properties very good toughness & stiffness, good resistance to chemicals and stress cracking.

Note : the hotter the tool gets, the harder the housing will be, which might weaken it's resistance. In cosmetics industry, parts are varnished in order to increase it's resistance to small impacts.

Characteristics of screwless connector

We selected a screwless connector, anti-vandal version thanks to it's powerful springs. The maximum section of wire is 1.5mm², flexible or rigid.