

**COMITRONIC - BTI**

**BICOLOR TOUCH SENSITIVE  
CONTACTLESS BUTTON  
MULTIFUNCTION OPTICAL  
CONTACTLESS BUTTON**

**NEW MODEL  
IP69K**

**MULTIPLY PILOT LAMPS - SPOT  
ROAD MARKINGS**



## **KAPIX series B22, B30, KB100, KOB100, KOB308**

Single or bicolor illuminated touch control button.



**Anti-vandalism  
UV resistant  
Hygiene NF EN 1672-2  
Glow wire NF EN 60335**

**A control button suitable for any circumstances**

### **TR90UV housing benefits :**

- ▶ Suitable for food, pharmaceutical or cosmetic contact
- ▶ Very good UV resistance
- ▶ Very good heat resistance
- ▶ Very good resistance to cold
- ▶ Very good resistance to chemicals and hydrocarbons
- ▶ Very good resistance to organic matter
- ▶ Very good impact and scratch resistance
- ▶ Very good resistance to glow wire
- ▶ IP 67 and IP 69K protection
- ▶ Translucent glass for bicolor or monochrome LED lighting
- ▶ Standard M22, M30, 51mm mounting on table or wall

### **Technological advantages :**

- ▶ Action on simple contact with bare finger or equipped with an EN 388 glove
- ▶ Immunity to triggering by water splashes or organic material
- ▶ Suitable for direct contact in a food environment: B22CV, B30CV
- ▶ Disabled Version: vibrator for sensory feedback or buzzer for the visually impaired
- ▶ MSD reduction
- ▶ Replacement of mechanical switches in the living quarters, offices: KB100A
- ▶ Replacement of machine control buttons: KB100M, KOB100 series
- ▶ Replacement of mechanical buttons in public transport: KB100TR
- ▶ Two hand control feature with the KOB101T
- ▶ Emergency stop feature with the KOB110T
- ▶ Optical + capacitive bi-technology system with the KOB101T, KOB105T, KOB110T, KOB508T series
- ▶ Momentary action, bistable or timed with either B22, B30 series KB
- ▶ Software SC51: programmable momentary action, bistable or timed with KOB308 and KOB508T
- ▶ Type of electrical contact: 1 NO, 1 NO + 1 NF, 2 NF, 2 NO
- ▶ Bicolor LED lighting on B22, B30
- ▶ Bicolor light ring KB100M, KB100TR, KOB101T
- ▶ Offset effect light ring on KB100A
- ▶ Output cable UL2464, robust molded PUR M12 50cm cord UL20549, screwless connector, screw connector

## B22 and B30 Series

Capacitive technology luminous bicolor touch control button



**Immunity to water splashes**  
**Momentary, bistable or timed feature**  
**Up to two electrical contacts**

- ▶ Number of cycles: 100 million at 200 mA
- ▶ Standard activation distance: 0 mm
- ▶ Remote activation on demand: 1.5 mm
- ▶ Electrical contact: 1 NO, 2 NO, 1 NO + 1 NF, 400mA/24V
- ▶ Features to choose from:
  - ON/ON = momentary and protection against fraud. The action is canceled if the finger or an organic material is present longer than 5s
  - ON/OFF = bistable. One pulse switches the contacts and another pulse places them at rest
  - ON/duration/OFF = delayed stop 90s «timer» feature (other value on request)
  - Offset ON = delayed start. To confirm the request the button must be held for 350ms (other values on request)
- ▶ Indication by bicolored LED with effects:
  - Version «VR» solid green and flashing red
  - Version «BJ» solid blue and flashing yellow
  - Version «VSR» green shimmer and flashing red
- ▶ Bicolor LED indication by external control: version «OL»
- ▶ Sensory indicator for the visually impaired: B30H with vibrator and B30Z with buzzer
- ▶ Body color: black, gray, white, red, opal green, yellow, green
- ▶ Attaching B22: M22 screw thread with nut and seal provided
- ▶ Attachment B30: M30 screw thread with nut and seal provided
- ▶ Material TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes
- ▶ Electrical connection: 3m cable or 50cm cable with M12 connector (UL20549 PUR) or 1.5 mm<sup>2</sup> screwless connector or 0.5mm<sup>2</sup> screw connector
- ▶ Waterproofed version CC: IP 67 and IP 69K (in 2015)
- ▶ Waterproof version CV: IP 67 and IP 69K (front part only)

**Convex profile = easy cleaning**  
**Concave profile = holds the finger**

**For the disabled**  
**With version H or Z**

## ❶ Fraud Protection

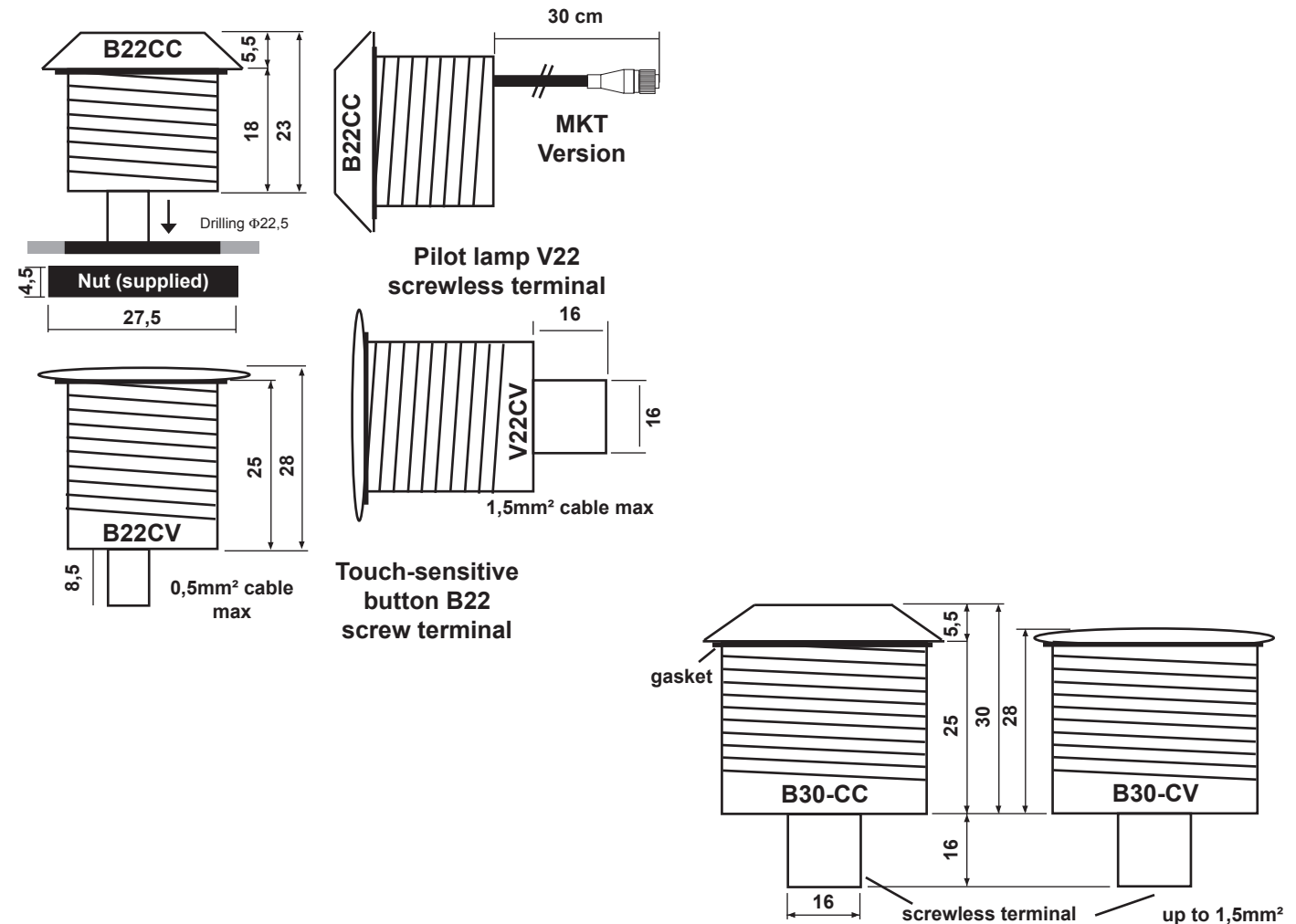
The «momentary» function which replaces a push button, includes a 5s delay when the finger or a detectable material remains on the sensitive part. This time can be changed on request.

## ❷ Design Effect

The «green opal» body emits LED light.

## ❸ Anti-vibration Connector

The screwless connector ensures good wire retention even on vibrating elements.



Contacts Pinout			
MKT	OL-MKT	10/101C/20/2C	OL
1-5 = NO or <b>NC</b>	1-5 = NO or <b>NC</b>	2-3 = NO or <b>NC</b>	2-3 = NO or <b>NC</b>
4-6 = NO or <b>NC</b>	3 = green/blue 8 = red/yellow	4-5 = NO or <b>NC</b>	4 = green/blue 5 = red/yellow

Product	Material	Connection/Type	Contact
B22-CV-1-2-3-4-5-6	TR90UV	Convex profile, M22, IP 67, IK 08, IP 69K on the face	-
B22-CC-1-2-3-4-5-6	TR90UV	Concave profile, M22, IP 67 and soon IK 08, IP 69K on the face	-
B30-CV-1-2-3-4-5	TR90UV	Convex profile, M22, IP 67, IK 08, IP 69K on the face	-
B30-CV-1-2-3-4-5	TR90UV	Concave profile, M30, IP 67 and soon IK 08, IP 69K on the face	-
B30-CV-1-2-3-4-5	TR90UV	Concave profile, M30, IP 67 and soon IK 08, IP 69K on the face, vibrator for sensory feedback	-
B30-CV-1-2-3-4-5	TR90UV	Concave profile, M30, IP 67 and soon IK 08, IP 69K on the face, buzzer for audible feedback	-
1 = "1O"	-	Nature of the output contact and internal LED control	1 NO
1 = "2O"	-	Nature of the output contact and internal LED control	2 NO
1 = "1O1C"	-	Nature of the output contact and internal LED control	1 NO + 1NF
1 = "1OL"	-	Nature of the output contact and external LED control	1 NO
2 = "VR"	-	Illumination color solid green (off) and flashing red (on)	-
2 = "BJ"	-	Illumination color solid blue (off) and flashing yellow (on)	-
3 = "M"	-	Momentary action ON/ON	-
3 = "T"	-	Bistable action ON/OFF	-
3 = "D1"	-	Delayed stop action 90s (timer)	-
3 = "D2"	-	Delayed start action 350ms	-
4 = "NR"	-	Black color	-
4 = "GS"	-	Gray color	-
4 = "BC"	-	White color	-
4 = "RE"	-	Red color	-
4 = "VO"	-	Green opal color with illuminated ring	-
5 = "MKT"	-	50cm (30cm min) male PUR M12 cable	-
5 = "MKT220"	-	B30 only: 220cm male PUR cable	-
5 = "xxM"	-	7 x 0.25mm <sup>2</sup> cable, xx = length in m	-
5 = "C"	-	B22 only: Screw connector, 0.5mm <sup>2</sup> thread	-
5 = "-"	-	B30 only: Screwless connector, 1.5mm <sup>2</sup> wire	-
6 = "12V"	-	Version with 12V power supply only for B22 Type	-
FKT-5M	PUR	8 x 0.25mm <sup>2</sup> female PUR M12 cable, L = 5m	-
FKT-10M	PUR	8 x 0.25mm <sup>2</sup> female PUR M12 cable, L = 10m	-
FKT-15M	PUR	8 x 0.25mm <sup>2</sup> female PUR M12 cable, L = 15m	-
PICTOGRAM	-	Engraved markings (contact us)	

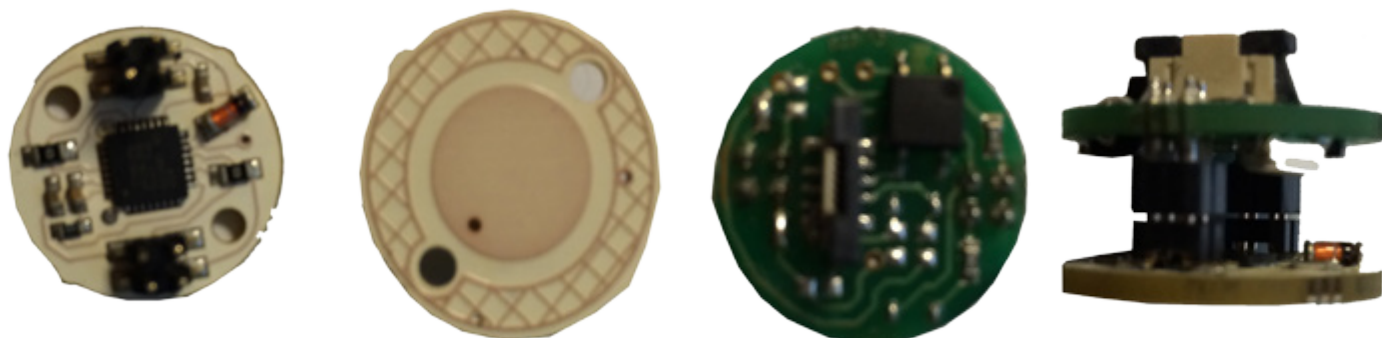
Note: It is possible to have other effects on the LEDs. For example, «shimmering green and flashing red». Item code «VR» must be replaced with «VSR». This type of lighting makes it easier to attract attention.

Our 24V standard references:  
 B22-CV-1OL-VR-M-NR-C  
 B30-CV-1OL-VR-M-NR  
 B30-CV-1OL-VR-M-VO  
 B30-CC-1OL-VR-M-NR-MKT220

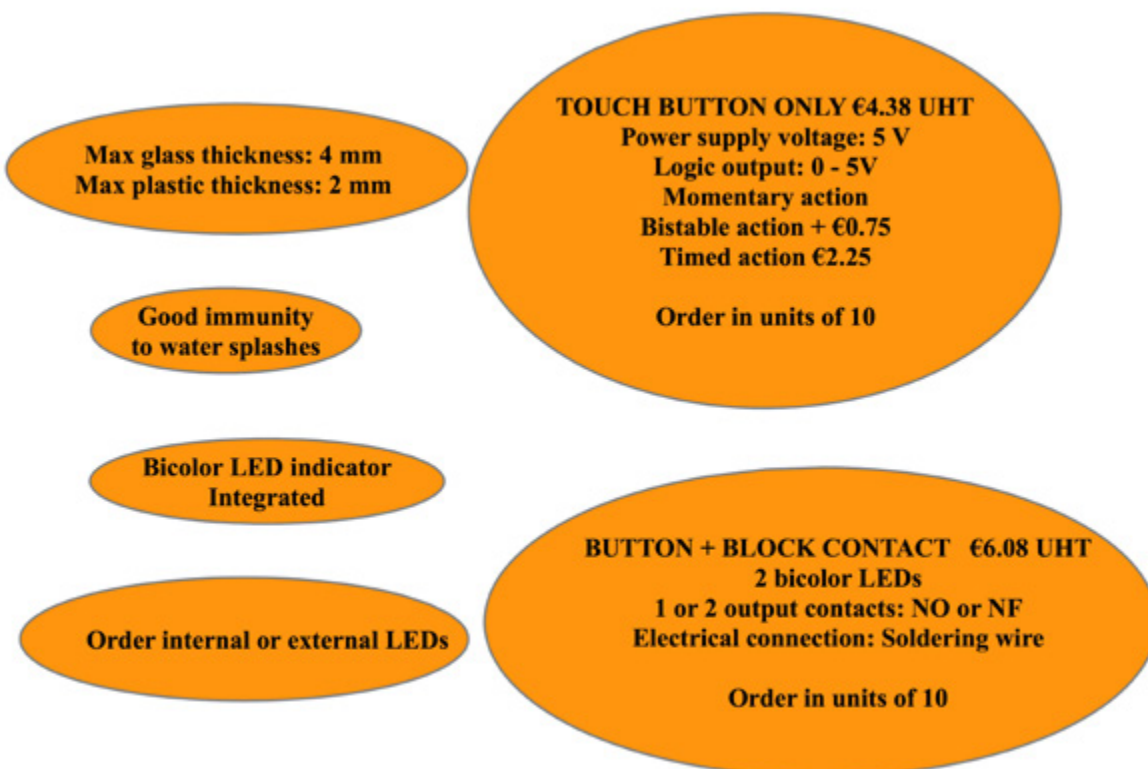
Our 12V standard references:  
 B22-CV-1OL-VR-M-NR-C-12V

## **B22 OEM**

Bicolor luminous touch control button with capacitive technology for integration



Placement behind glass or insulating material  
Momentary, bistable or timed feature  
Up to two electrical contacts



## Serie KB 100

Capacitive technology luminous bicolor touch control button



**Pictograms  
by request**



**LED ring  
with offset effect**

**Large touch area**

**250 VAC lighting switch in the premises  
24 VDC machine control  
Request for stop/opening for public transport**

**MSD reduction  
Hygiene**

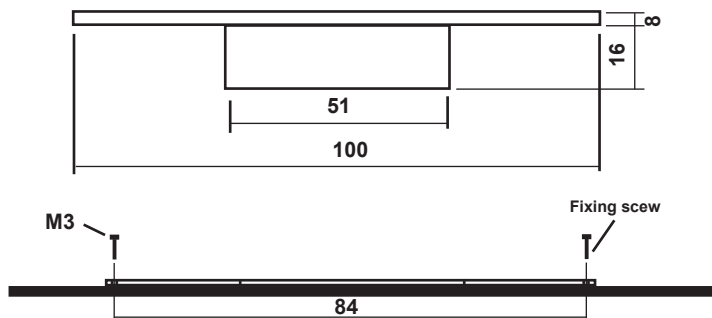
- ▶ Number of cycles: 100 million at 200 mA
- ▶ Standard activation distance: 0 mm
- ▶ Electrical contact KB100A: 1 RT 1700 VA/250V
- ▶ Electrical contact KB100M: 1 NO, 1 NO+1NF, 8A/250V
- ▶ Electrical contact KB100M: 1 PNP NO, 400mA/24V
- ▶ Selectable features KB100A and KB100M: bistable, monostable, deferred stop (90s timer), delayed start (350ms). Other value on request.
- ▶ Function details:
- ▶ ON/ON = momentary with fraud protection The action is canceled if the finger or organic material is present longer than 5s
- ▶ ON/OFF = bistable. One pulse switches the contacts and another pulse places the contacts at rest
- ▶ ON/duration/OFF = delayed stop 90s «timer» feature (other value on request)
- ▶ Offset ON = delayed start. To confirm the request the button must be held for 350ms (other values on request)
- ▶ Indication by LED ring offset effect: KB100A: white or amber color (other on request)  
KB100M: green and red color  
KB100TR: green and red color
- ▶ Bicolor LED indication by external control: version «OL»
- ▶ Attachment 1: recessed box for plaster panel (2 D3 screws)
- ▶ Attachment 2: panel by invisible screwing (2 to 6 D3 screws)
- ▶ Material: TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes
- ▶ Electrical connection: 1m cable or 1.5mm<sup>2</sup> connector without screws
- ▶ Water resistance: IP 67 with peripheral silicone seal
- ▶ Temperature: -25°C to +60°C
- ▶ Marking: pad printing on the trim of some models
- ▶ Silkscreen reference on the back of the product

### ① Usefulness of delayed start

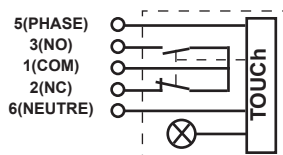
The delayed start (ref. D2 to 350ms) avoids tripping at the mere brush of a hand by increasing the response time. With a larger value (e.g. 2s) it also allows confirming a function such as entry into a particular mode of a machine.

### ② Anti-vibration connector

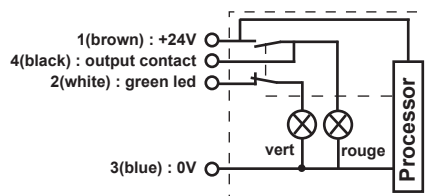
The screwless connector ensures good wire retention even on vibrating elements.



**KOB100A**

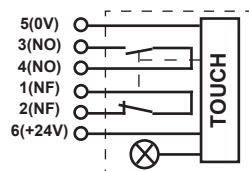


**KOB100TR**

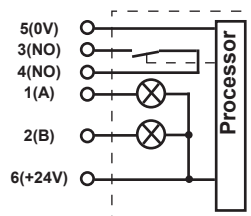


**KOB100M**

**101C Version**



**10L Version**





Product	Material	Connection/Type	Contact
KB100A-1-2-3-4	TR90UV	Residential premises, 100mm diameter, IP 67 with peripheral silicone seal Connection by screwless terminal for 1.5mm <sup>2</sup> wire	
KB100M-1-2-3-4	TR90UV	Industry, 100mm diameter, IP 67 with peripheral silicone seal Connection by screwless terminal for 1.5mm <sup>2</sup> wire	
KB100TR-1-2-3-4	TR90UV	Public transport, 100mm diameter, IP 67 with peripheral silicone seal 7 x 0.25mm <sup>2</sup> cable length 1m (others on request)	
1 = "1RT"	-	KB100A only: LED internal control	1 RT 1700VA/250V
1 = "1O1C"	-	KB100M only: LED internal control	1 NO+1NF 8A/250V
1 = "1OL"	-	KB100M only: LED external control	1 NO
1 = "1O"	-	KB100TR only: LED internal/external control	1 NO
2 = "VR"	-	KB100M and TR only: green (off) and red (on) illumination color	-
2 = "BC"	-	KB100A only: white illumination color	-
2 = "BU"	-	KB100A only: blue illumination color	-
2 = "AE"	-	KB100A only: amber illumination color (orange)	-
3 = "M"	-	KB100A, KB100M, KB100TR : momentary action ON/ON	-
3 = "T"	-	KB100A, KB100M : bistable action ON/OFF	-
3 = "D1"	-	KB100A, KB100M, KB100TR: 90s delayed stop action (timer)	-
3 = "D2"	-	KB100A, KB100M: 350ms delayed start action	-
4 = "BC"	-	Trim color: white	-
4 = "NR"	-	Trim color: black RAL 9017	-
4 = "JE"	-	Trim color: yellow RAL 1023	-
4 = "RE"	-	Trim color: red RAL 3020	-
4 = "BU"	-	Trim color: blue RAL 5015	-
4 = "BU"	-	Trim color: green RAL 6024	-
Ref + PIC	-	Pictogram: specify the model	-

**PICTOGRAMS**



## Serie KOB 308

Optic technology luminous bicolor touch control button



Activation without contact

Works with neoprene and EN 388 glove

LED ring

Convex profile = easy cleaning

### Immunity to water splashes

#### Activation without contact

«Momentary, bistable and time-delayed» functions configurable on PC

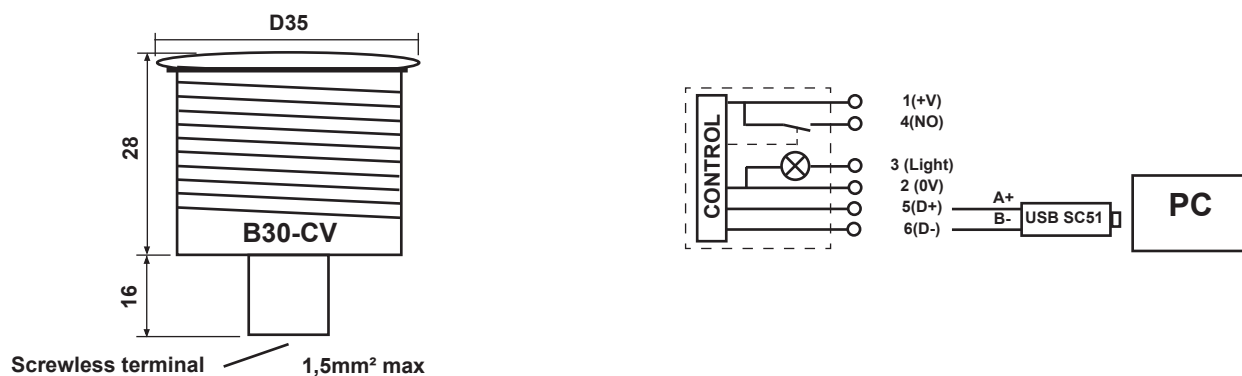
- ▶ Number of cycles: 100 million at 200 mA
- ▶ Activation distance version «L»: About 17 mm
- ▶ Activation distance version «S»: about 3 mm
- ▶ Electrical contact: 1 PNP NO or 1 NF, 200mA/24V
- ▶ Functions through SC51 software:
  - ON/ON = momentary. Simulation of the pushbutton
  - ON/OFF = bistable. One pulse switches the contacts and another pulse places them at rest
  - ON/duration/OFF = delayed stop 1 to 999s «timer» function
  - Offset ON = delayed start. 1 to 9s
- ▶ Indication: LED ring
- ▶ Bicolor LED indication by external control: version «OL»
- ▶ Color of the button body: black, gray, white, red, green opal.
- ▶ Opal green color enables lighting of the ring
- ▶ Attachment: M30 screw thread with nut and seal provided
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes
- ▶ Electrical connection: 1.5mm<sup>2</sup> screwless connector without
- ▶ Water resistance: IP 67 and IP 69K (front part only)
- ▶ Temperature: -25°C to +60°C
- ▶ Printing: screen printing for the reference on the back of the product

## ❶ A configurable button

On delivery the product is set to momentary action. Use the USB SC-51 key and run the software to set another mode.

## ❷ Anti-vibration connector

The screwless connector ensures good wire retention even on vibrating elements.



Product	Material	Connection/Type	Contact
KOB308-L-1-2-M-3	TR90UV	Convex profile, M30, IP 67, IK 08, IP 69K detection ~ 17mm, momentary action, connection to screwless terminals for 1.5mm <sup>2</sup> wire	-
KOB308-S-1-2-M-3	TR90UV	Convex profile, M30, IP 67, IK 08, IP 69K detection ~ 3mm, momentary action, connection to screwless terminals for 1.5mm <sup>2</sup> wire	-
1 = "OLP"	-	External control of LEDs by PNP input	1 PNP NO
1 = "OLN"	-	External control of LEDs by PNP input	1 PNP NO
1 = "FLP"	-	External control of LEDs by PNP input	1 PNP NF
1 = "FLN"	-	External control of LEDs by PNP input	1 PNP NF
1 = "IOP"	-	Internal LED control	1 PNP NO
1 = "IFP"	-	Internal LED control	1 PNP NF
2 = "B"	-	Blue lighting color	-
2 = "W"	-	White lighting color	-
2 = "R"	-	Red lighting color	-
2 = "G"	-	Green lighting color	-
2 = "A"	-	Amber lighting color (orange)	-
3 = "NR"	-	Black body color (other on request)	-
3 = "VO"	-	Green opal body color with illuminated ring	-
SC-51	-	USB key kit with the PC configuration software	-

## Serie KOB 508T

Dual technology optical/capacitive luminous touch control button



Works with neoprene and EN 388 glove

Activation without contact

Flat profile = easy cleaning

### Activation by contact, wide range of detectable material

Great ease of detection anywhere on the button

«Momentary, bistable and time-delayed» functions configurable on PC

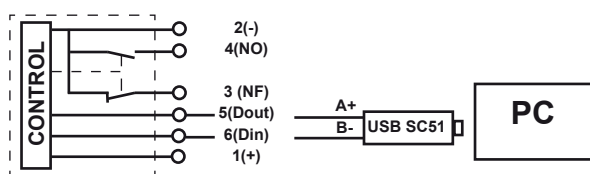
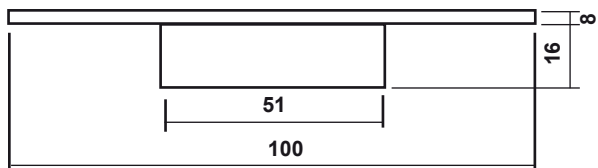
- ▶ Number of cycles: 100 million at 200 mA
- ▶ Activation distance version «L»: About 17 mm (others on request)
- ▶ Electrical contact: 1 PNP NO or 1 NF, 200mA/24V
- ▶ Functions through SC51 software:
  - ON/ON = momentary. Simulation of the pushbutton
  - ON/OFF = bistable. One pulse switches the contacts and another pulse places them at rest
  - ON/duration/OFF = delayed stop 1 to 999s offset ON «timer» function = delayed start. 1 to 9s
- ▶ Indication: LED ring
- ▶ Trim color: black, white, red, green, blue
- ▶ Opal green color enables lighting of the ring
- ▶ Attachment: 51mm bore and 2 to 6 D3 invisible screws (not included)
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes with the new 2015 generation
- ▶ Electrical connection: 1.5mm<sup>2</sup> screwless connector without
- ▶ Water resistance: IP 67 with peripheral silicone seal
- ▶ Temperature: -25°C to +60°C
- ▶ Printing: screen printing for the reference on the back of the product

### ❶ A configurable button

On delivery the product is set to momentary action. Use the USB SC-51 key and run the software to set another mode.

### ❷ Anti-vibration connector

The screwless connector ensures good wire retention even on vibrating elements.



Product	Material	Connection/Type	Contact
KOB508T-1-2-M-3	TR90UV	100mm diameter, IP67, detection ~mm, momentary action, screwless terminal connection for 1.5mm <sup>2</sup> wire	-
1 = "IOFP"	-	Internal LED control	1 NO PNP
1 = "2OP"	-	Internal LED control	2 NO PNP
1 = "2FP"	-	Internal LED control	2 NF PNP
2 = "B"	-	Blue lighting color	-
2 = "W"	-	White lighting color	-
2 = "R"	-	Red lighting color	-
2 = "G"	-	Green lighting color	-
2 = "A"	-	Amber lighting color (orange)	-
3 = "NR"	-	Black body color (other on request)	-
3 = "VO"	-	Green opal body color with illuminated ring	-
SC-51	-	USB key kit with the PC configuration software	-

## **KOB 110T Serie**

Dual technology optical/capacitive luminous touch secure stop button



Activation on contact

Works with  
neoprene and EN 388 glove

Flat profile = easy cleaning

### **Activation by contact, wide range of detectable material**

**Great ease of detection anywhere on the button**

**Bistable function with timed lock release**

- ▶ Service life before dangerous failure: 40 years
- ▶ Activation distance: on contact
- ▶ Electrical contact: 2 PNP NF 200mA (NO powered off)
- ▶ Detection of short circuit in the wires: yes
- ▶ Detection of abnormal function: yes
- ▶ Indication mode «on»: solid red LED ring
- ▶ Indication mode «off»: flashing red LED ring
- ▶ Indication mode «error»: timed offset red LED ring
- ▶ Trim color: red
- ▶ Opal green color enables lighting of the ring
- ▶ Attachment: 51mm bore and 2 to 6 D3 invisible screws (not included)
- ▶ Very low visible thickness
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes with the new 2015 generation
- ▶ Electrical connection: 1.5mm<sup>2</sup> screwless connector without
- ▶ Water resistance: IP 67 with peripheral silicone seal
- ▶ Temperature: -25°C to +60°C
- ▶ Printing: screen printing for the reference on the back of the product

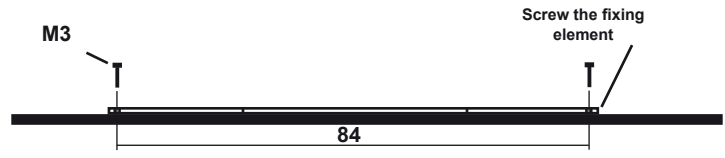
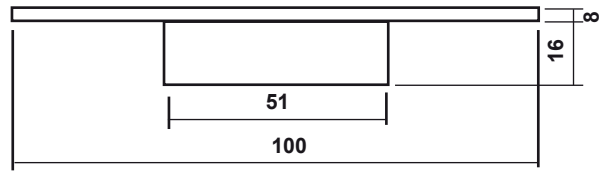
### **❶ Two types of mounting**

«Flush» on panel with reference KOB110T

«Projecting» with reference KOB110TB

### **❷ Anti-vibration connector**

The screwless connector ensures good wire retention even on vibrating elements.



Product	Material	Connection/Type	Contact
<b>KOB110T</b>	TR90UV	Diameter 100 mm, IP 67, 0 mm detection, connection for 1.5mm <sup>2</sup> wire, red light, screwless terminal	2 PNP NF
<b>ref + B</b>	PC	Waterproof box with cable gland outlet for surface mounting	-



## **KOB 101T**

Two-hand dual-technology touch control button for enhanced security



Optical and capacitive triangulation technology for dynamic hand detection and control of foreign objects

### **Dynamic detection of approaching hand even wearing gloves**

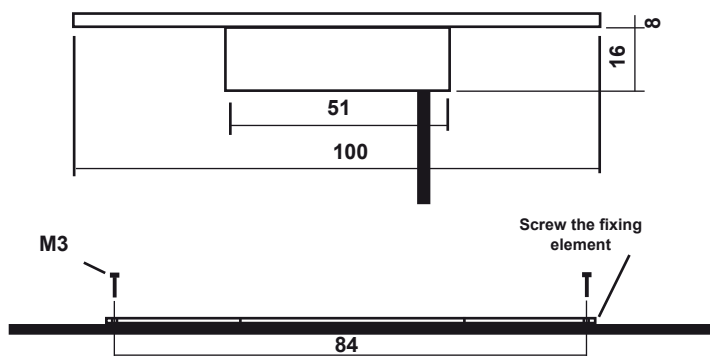
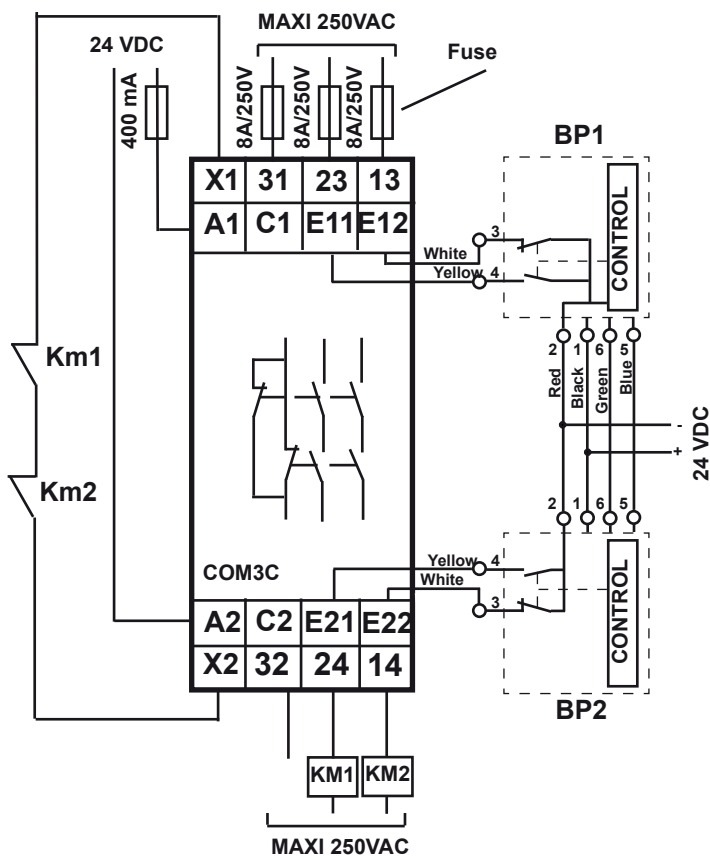
#### **Fraud reduction system and MSD reduction**

#### **Capacitive and optical technology touch button**

- ▶ Performance level with COM3C controller: PL = e
- ▶ Safety category with COM3C: IIIC (EN 574), 4 (ISO 13849-1)
- ▶ Failsafe level with COM3C: SIL 3
- ▶ Time before dangerous failure: MTTFd = 100 years
- ▶ Activation distance: on touch (0 force = MSD reduction)
- ▶ Safety contacts: 1 x PNP NO/50mA OSSD and 1 x PNP NF/50mA OSSD
- ▶ Diagnostics: fraud, simultaneity, short-circuiting of contacts with multi-function illuminated ring
- ▶ Reset: automatic with two buttons correctly activated
- ▶ Attachment: Attachment: 51mm bore and 2 to 6 invisible D3 screws (not included)
- ▶ Mounting position: 1
- ▶ Material: TR90UV yellow
- ▶ Electrical connection: 6-way screwless push terminal 1.5mm<sup>2</sup>
- ▶ Water resistance: IP 67 with silicone seal on the trim
- ▶ Temperature: -25°C to +60°C
- ▶ Marking: screen printed + serial no. for traceability
- ▶ Recommendations: use gloves in accordance with EN 388

### **Important information on MSD (Musculoskeletal Disorders)**

This is a set of conditions affecting all the soft tissues around the joint: muscles, tendons and their sheaths, nerves, vessels. It is the most recognized health problem in France and requires the most work stoppages. The two-hand KOB101Ti control offers unparalleled user comfort by reducing MSD.



Product	Material	Connection/Type	Security output	Auxiliary output	PL EN ISO 13849-1	Conformity EN 574
<b>KOB101T</b>	TR90UV	Push terminal 1 x KOB101T Button	1 NO 1 NF	-	-	-
<b>KOB101Ti</b>	TR90UV	Push terminal 2 x KOB101T buttons and 1 x COM3C	2 NO	1 redundant NF //	e	IIC
<b>KOB101TB</b>	TR90UV	Push terminal 1 x KOB101T Button mounted on plastic box PC	1 NO 1 NF	-	-	-
<b>BX101</b>	STAINLESS STEEL	Desk/protection for a KOB101T	-	-	-	-

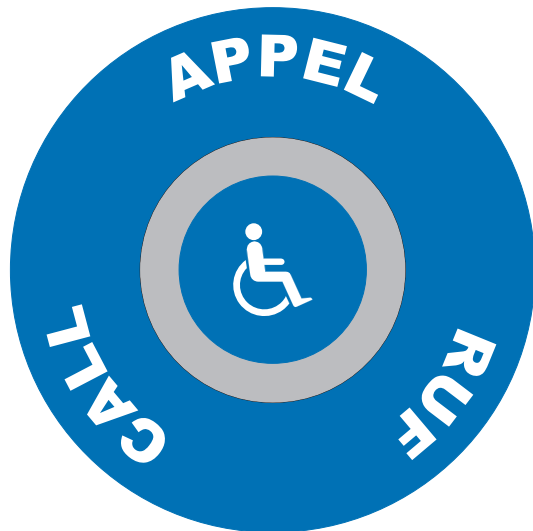
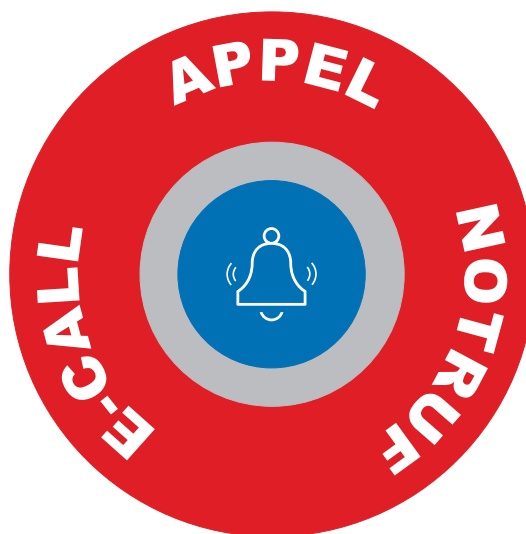
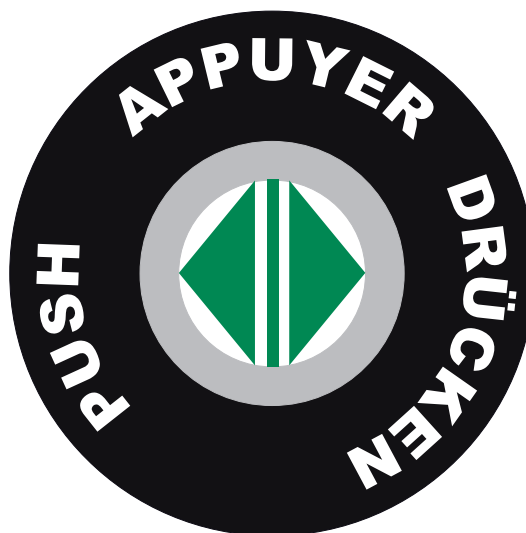
**PICTOGRAMS**

Kapix buttons / KOB100 serie laser marking on sensitive surface



**PICTOGRAMS**

Kapix buttons / KOB100 serie : pad printing on the 100 mm cap



## **V22, V30, V30-SPOT, YB100**

Bicolor luminous lights and lighting of premises



### **Indicator lights for machines, low-thickness spotlights**

#### **TR90UV housing benefits :**

- ▶ Suitable for food, pharmaceutical or cosmetic contact
- ▶ Very good UV resistance
- ▶ Very good heat resistance
- ▶ Very good resistance to cold
- ▶ Very good resistance to chemicals and hydrocarbons
- ▶ Very good resistance to organic matter
- ▶ Excellent impact and scratch resistance
- ▶ Excellent glow wire resistance
- ▶ IP 67 and IP 69K protection
- ▶ Standard M22, M30, 51mm mounting on table or wall

#### **Technological advantages :**

- ▶ Suitable for direct contact in food environment
- ▶ Red/green or yellow/blue bicolor LED indicator: V22, V30
- ▶ Spot illumination for obscure parts of the machines: V30-SPOT
- ▶ SPOT 100mm low thickness ceiling illumination for residential premises and offices
- ▶ Two-wire connection for the spotlights or three-wire for the indicators
- ▶ Wide power range
- ▶ Low power consumption, very low heat, service life up to 100,000 hours
- ▶ Output cable UL2464, robust molded 50cm PUR M12 cable UL20549, screwless connector, screw connector

## **V22, V30, V30-SPOT Serie**

Indicators and LED technology tricolor luminous lighting



**Tricolor light  
red, green, orange**

**Hygiene  
NF EN 1672-2**

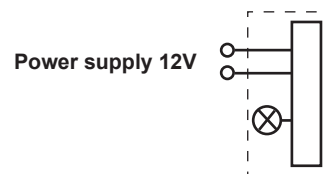
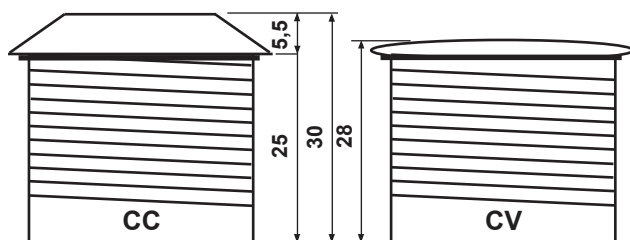
**Replaces incandescent lamp indicators**  
**Bicolor indicators to save space**  
**Illumination of dark areas for machines or enclosures**

- ▶ Service life: 50,000 hours
- ▶ Light type V22: 180 mcd high-luminosity bicolor LED
- ▶ Type V30 light: 360 mcd high-luminosity tricolor LED
- ▶ V30-SPOT light type: LED up to 34.5 lm
- ▶ V30 illumination color: red/green/orange or yellow/blue
- ▶ V30-SPOT lighting color: white (other on request)
- ▶ Body color: black, gray, white, red, green, opal, yellow
- ▶ V22 attachment: M22 screw thread with nut and seal provided
- ▶ V30/V30-SPOT attachment: M30 screw thread with nut and seal provided
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Food contact: yes
- ▶ Resistance to washing: yes
- ▶ Anti-vandalism: yes
- ▶ Electrical connection V30-SPOT: 10cm cable (or other)
- ▶ V22/V30 Electrical connection: 1.5mm<sup>2</sup> screwless connector
- ▶ Waterproofed version CC: IP 67 and IP 69K (in 2015)
- ▶ Waterproof version CV: IP 67 and IP 69K (front part only)
- ▶ Temperature: -20°C to +55°C

Product	Material	Connection/Type
V22-CV-1-2-3	TR90UV	Light, Convex Profile (easy cleaning), M22, IP 67, IK 08, IP 69K screwless terminal for 1.5mm <sup>2</sup> wire
V22-CC-1-2-3	TR90UV	Light, Concave Profile (finger push fit), M22, IP 67 and IK 08 soon, IP 69K, screwless terminal for 1.5mm <sup>2</sup> wire
V30-CV-1-2-3	TR90UV	Light, Convex Profile (easy cleaning), M30, IP 67, IK 08, IP 69K screwless terminal for 1.5mm <sup>2</sup> wire
V30-CC-1-2-3	TR90UV	Light, Concave Profile (finger push fit), M30, IP 67 and IK 08 soon, IP 69K, screwless terminal for 1.5mm <sup>2</sup> wire
V30-SPOT-1-2	TR90UV	Lighting, Convex Profile (easy cleaning), M30, IP 67, IK 08, IP 69K, cable/2 wires
1 = "VR"	-	V22 and V30: green red yellow tricolor LED indicator
1 = "BJ"	-	V22 and V30: blue and yellow bicolor LED indicator
1 = "W"	-	V30-SPOT: 34.5 lm white LED lighting (other colors on request)
1 = "B"	-	V30-SPOT: 10.8 lm blue LED lighting (other colors on request)
1 = "R"	-	V30-SPOT: 13.6 lm LED red lighting (other colors on request)
2 = "NR"	-	Body Color: Black
2 = "GS"	-	Body color: gray
2 = "BC"	-	Body Color: White
2 = "RE"	-	Body Color: Red
2 = "VO"	-	Body Color: opal with ring lighting
2 = "VO"	-	Body color: yellow
2 = "VO"	-	Body Color: green
3 = "-"	PA	1,5mm <sup>2</sup> pusher wire terminal
3 = "xxM"	PVC	cable length in meters (3M/6M/12M)
3 = "MKT220"	PUR	M12 output 220cm PUR cable
3 = "MKT"	PUR	M12 output 50cm PUR cable

**Our standard references :**

V30-CC-VR-NR-MKT220, V30-CC-VR-VO, V30-CV-VR-NR, V30-CV-VR-VO



## **YB100A Serie**

Ceiling spot lighting with LED technology



**12 ~ 50 VDC power**

### **Replaces halogen spotlights**

**Low thickness under ceiling**

**51mm bore**

- ▶ Service life: 50,000 hours
- ▶ Luminosity: 200 or 400 lm
- ▶ Standard type of light: neutral white without UV 4000 K
- ▶ Light type on request: warm white 3100°K without UV
- ▶ Light type on request: cool white 6500°K without UV
- ▶ Trim color: black, white, green opal
- ▶ Attachment: 51mm bore and 2 to 6 D3 invisible screws (not included)
- ▶ 8mm low visible thickness
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Electrical connection: screw terminal for 1.5mm<sup>2</sup>/2.5mm<sup>2</sup>wire
- ▶ Electrical power supply: 12 to 50V by voltage regulation
- ▶ Water resistance: IP 67 with peripheral silicone seal
- ▶ Temperature: -5°C to +40°C.
- ▶ Printing: screen printing for the reference on the back of the product

### **❶ Choosing the right light**

Warm white for living areas

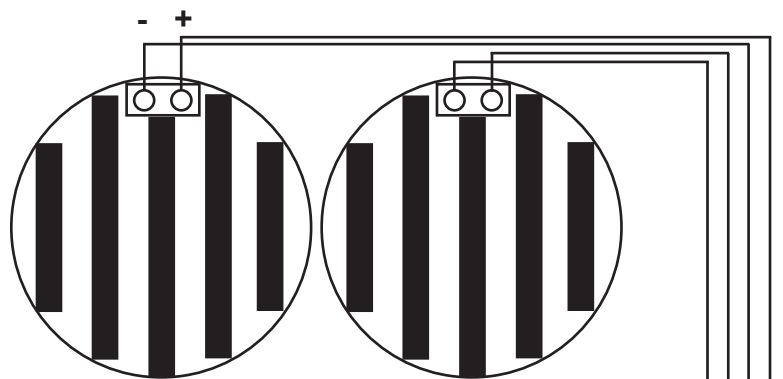
Neutral white for bathrooms and offices

Cool white for pharmacies and laboratories

### **❷ Warning**

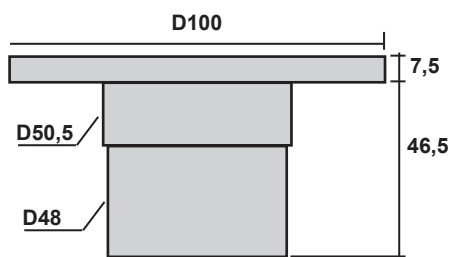
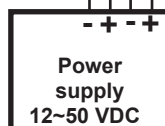
The spotlight should be powered through 12 VDC to 50 VDC transformer/voltage regulator. A simple adjusted filtered power supply is possible. Do not use constant current transformer/regulator.



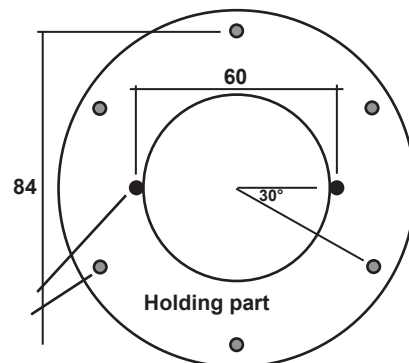


Connecting cable must have the following technical features

- Section mini =  $2 \times 0,5 \text{ mm}^2$
- No flame spread : IEC 60332.3
- Halogen free : IEC 754-1
- Temperature maxi :  $+125^\circ\text{C}$  (pic  $145^\circ\text{C}$ )



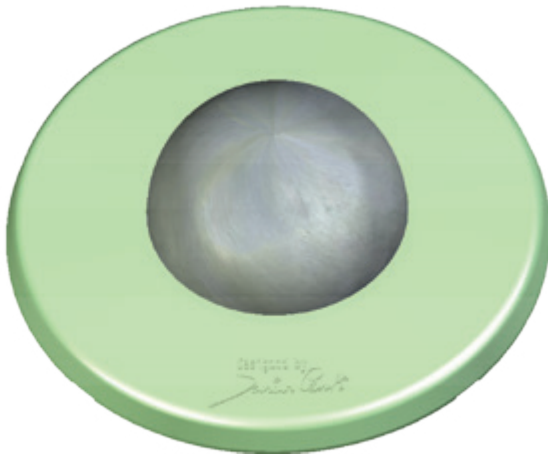
Fixing embedded box : 2 x screws D3mm x 20mm  
 Fixing or plaster board : 6 x screws D3mm x 20mm



Product	Material	Connection/Type
YB100A-1-2	TR90UV	100mm diameter, IP 67 with peripheral silicone seal Connection via screw terminals for wire up to $2.5\text{mm}^2$
1 = "N"	-	Neutral white lighting
1 = "W"	-	Warm white lighting
1 = "C"	-	Cold white lighting
2 = "BC"	-	White trim color
2 = "NR"	-	Black trim color

## YB100S Serie

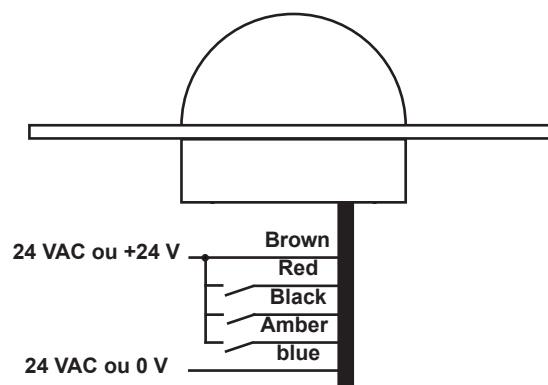
Multi-effect LED technology signaling beacon



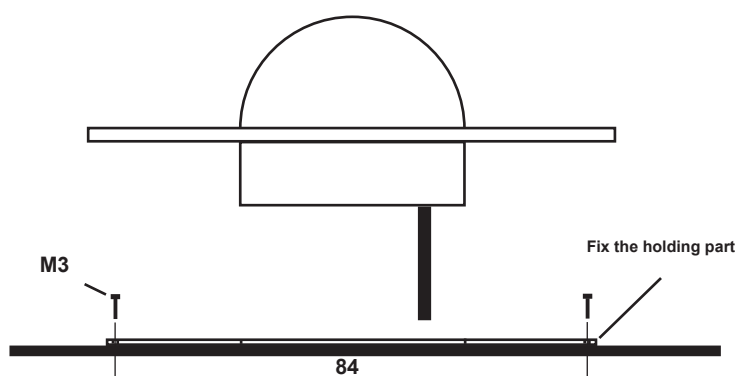
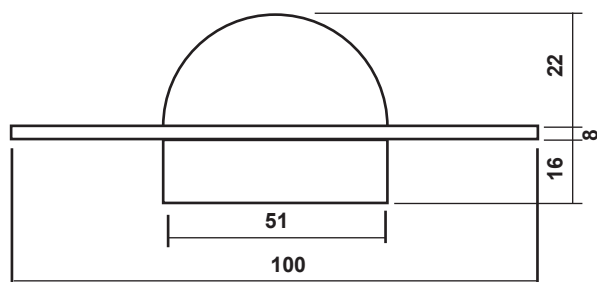
**Indicator light  
4 functions**

### Machine status signaling 4 types of selectable indications Low apparent thickness

- ▶ Service life: 50,000 hours
- ▶ Luminosity: 100 lm
- ▶ Mode 1: flash
- ▶ Mode 2: Flashing
- ▶ Mode 3: Fixed
- ▶ Mode 4: Revolving
- ▶ Trim color: black, white, yellow, red
- ▶ Attachment: 51mm bore and 2 to 6 D3 invisible screws (not included)
- ▶ 8mm low visible thickness
- ▶ Mounting position: 1
- ▶ Material TR90UV
- ▶ Electrical connection: 1m 7 x 0.25mm<sup>2</sup> cable (other lengths on request)
- ▶ Water resistance: IP 67 with peripheral silicone seal
- ▶ Temperature: -5°C to +40°C.
- ▶ Printing: screen printing for the reference on the back of the product



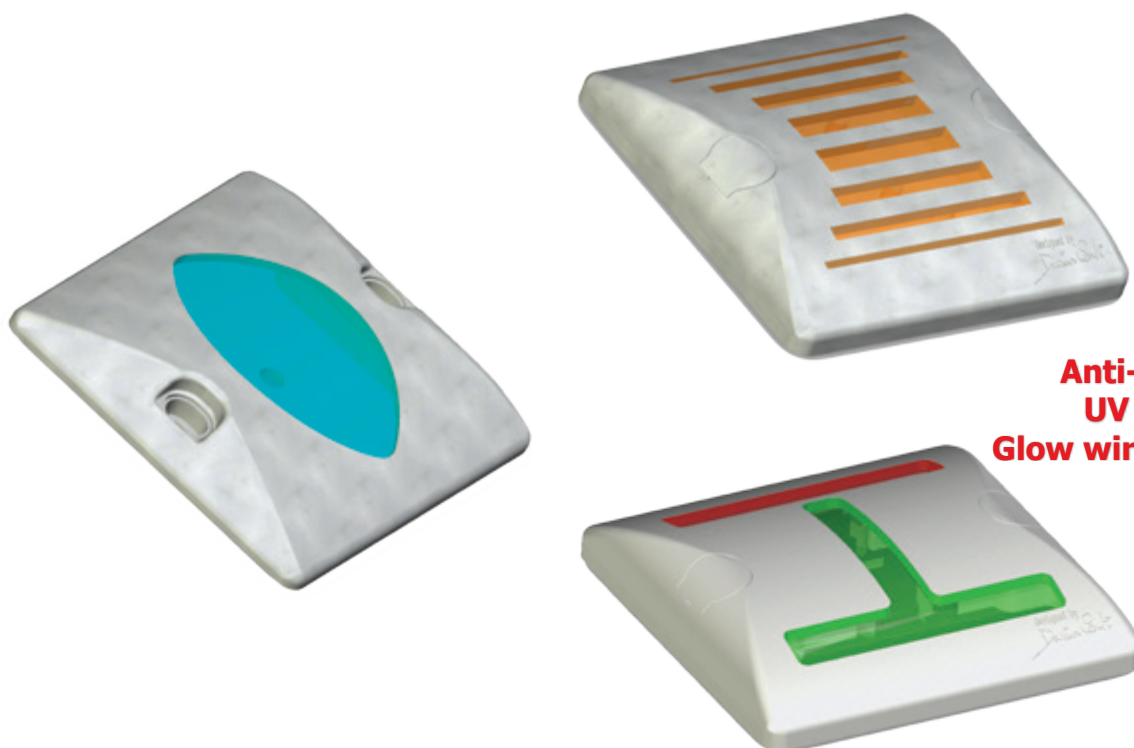
Product	Material	Connection/Type
YB100S-1-2-3	TR90UV	100mm diameter, IP 67 with peripheral silicone seal Cable connection
1 = "BC"	-	White lighting
1 = "BU"	-	Blue lighting
1 = "AE"	-	Amber illumination (orange)
1 = "RE"	-	Red lighting
1 = "VT"	-	Green lighting
2 = "BC"	-	White trim color
2 = "NR"	-	Black trim color
2 = "JE"	-	Yellow trim color
2 = "RE"	-	Red trim color



## **GALLIA Serie**

Low profile luminous beacon

Due for release in 2015



**Anti-vandalism**  
**UV resistant**  
**Glow wire NF EN 60335**

### **Low profile luminous beacons**

#### **Design advantages :**

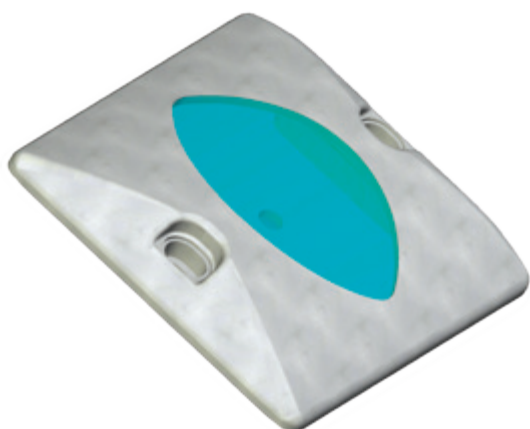
- ▶ Robust high-pressure zamak injected body
- ▶ Very good UV resistance
- ▶ Very good heat resistance
- ▶ Very good resistance to cold
- ▶ Very good impact resistance
- ▶ Excellent glow wire resistance
- ▶ IP 65 protection (IP 67 soon)
- ▶ Mounting on the floor or wall

#### **Technological advantages :**

- ▶ Powerful LED lighting system
- ▶ Low power consumption, very low heat generation, service life up to 50,000 hours
- ▶ Screw mounting with protective screw covers
- ▶ Multiple lighting features on some models
- ▶ Cable connection

## **GALLIA EYE**

illuminating terminal with one or two colors



Large illumination area

### **Lighting of walkways**

### **Architectural lighting**

### **Low thickness design curve**

- ▶ Service life: 50,000 hours
- ▶ Luminosity: 300 lm to 600 lm
- ▶ Lighting color: white, white + blue, white + red (others on request)
- ▶ Terminal color: gray
- ▶ Attachment: 2 M6 screws (not included)
- ▶ Screw cap: 2 in zamak (included) to be glued
- ▶ Low visible thickness: 19 mm
- ▶ Mounting position: 1, distance between screws 86 mm
- ▶ Material: zamak and TR90UV
- ▶ Electrical Connection: 1m 3G OD7 cable H07RN-F (other lengths on request)
- ▶ Water resistance: IP 65 protection (IP 67 soon)
- ▶ Temperature: -25°C to +60°C
- ▶ Marking: laser engraving or label (on the back of the product)

### **⚡ Electrical connection :**

For a buried cable implementation, use mechanical protection (sheath, conduit... etc.).

Use H07RN-F fire retardant and low smoke cable.

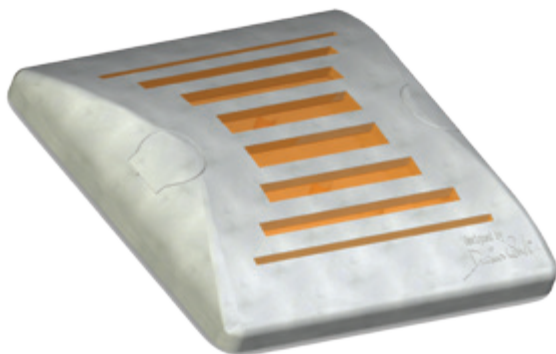
The use of rigid cables of type U1000-R2V and others is strongly discouraged due to the risk of causing increasing moisture in the product when combined with waterproof connectors.

### **⚠ Warning**

The spotlight should be powered through 12 VDC to 50 VDC transformer/voltage regulator. A simple adjusted filtered power supply is possible. Do not use constant current transformer/regulator.

## **GALLIA RAY**

Signaling terminal



**Luminous strips  
sequence effect**

### **Lighting of walkways Access lighting Low thickness design curve**

- ▶ Service life: 50,000 hours
- ▶ Luminosity: 1.6 cd
- ▶ Lighting color: white, orange, red, green, blue
- ▶ Luminous effect: alternating strips in sequence
- ▶ Terminal color: gray
- ▶ Attachment: 2 M6 screws (not included)
- ▶ Screw cap: 2 in zamak (included) to be glued
- ▶ Low visible thickness: 19 mm
- ▶ Mounting position: 1, distance between screws 86 mm
- ▶ Material: zamak and TR90UV
- ▶ Electrical connection: 1m 2G OD7 H07RN-F cable (other lengths on request)
- ▶ Water resistance: IP 65 protection (IP 67 soon)
- ▶ Temperature: -25°C to +60°C
- ▶ Marking: laser engraving or label (on the back of the product)

#### **❶ Electrical connection :**

For a buried cable implementation, use mechanical protection (sheath, conduit... etc.).

Use H07RN-F fire retardant and low smoke cable.

The use of rigid cables of type U1000-R2V and others is strongly discouraged due to the risk of causing increasing moisture in the product when combined with waterproof connectors.

#### **❷ Warning**

The spotlight should be powered through 12 VDC to 50 VDC transformer/voltage regulator.

Do not use constant current transformer/regulator.

## **GALLIA T**

Indicator terminal with patterns for transition



**Bicolor patterns  
for the type of movement**

### **Direction of vehicle routes for underground parking**

#### **Bicolor light strips**

#### **Low thickness design curve**

- ▶ Service life: 50,000 hours
- ▶ Luminosity: 1.6 cd
- ▶ Lighting color: white, orange, red, green, blue
- ▶ Luminous effect: alternating strips in sequence
- ▶ Terminal color: gray
- ▶ Attachment: 2 M6 screws (not included)
- ▶ Screw cap: 2 in zamak (included) to be glued
- ▶ Low visible thickness: 19 mm
- ▶ Mounting position: 1, distance between screws 86 mm
- ▶ Material: zamak and TR90UV
- ▶ Electrical connection: 1m 7 x 0.25mm<sup>2</sup> cable (other lengths on request)
- ▶ Water resistance: IP 65 protection (IP 67 soon)
- ▶ Temperature: -25°C to +60°C
- ▶ Marking: laser engraving or label (on the back of the product)

#### **❶ Electrical connection :**

For a buried cable implementation, use mechanical protection (sheath, conduit... etc.).

Use H07RN-F fire retardant and low smoke cable.

The use of rigid cables of type U1000-R2V and others is strongly discouraged due to the risk of causing increasing moisture in the product when combined with waterproof connectors.

#### **❷ Warning**

The spotlight should be powered through 12 VDC to 50 VDC transformer/voltage regulator.

Do not use constant current transformer/regulator.

Product	Material	Connection/Type
<b>GALLIA EYE-1</b>	ZP3	Lighting Size 110mm x 110mm x 19mm 1m cable connection
<b>1 = "BC"</b>	-	White lighting
<b>1 = "BCBU"</b>	-	White lighting
<b>1 = "BCRE"</b>	-	White + red lighting
<b>GALLIA RAY-1</b>	ZP3	Signaling direction of travel Size 110mm x 110mm x 19mm 1m cable connection
<b>1 = "BC"</b>	-	White lighting
<b>1 = "AE"</b>	-	Amber illumination (orange)
<b>1 = "RE"</b>	-	Red lighting
<b>1 = "VT"</b>	-	Green lighting
<b>1 = "BU"</b>	-	Blue lighting
<b>GALLIA T</b>	ZP3	Signaling direction of travel Size 110mm x 110mm x 19mm 1m cable connection



Any information or application example, included the connection diagrams, described in this document are to be intended as purely descriptive. The choice and application of the products in conformity with the standards, in order to avoid damages to persons or goods, is under the responsibility of the user. The drawings and data contained in this catalog are not binding and we reserve the right, to improve the quality of our products, to modify them any time without prior notification. This publication cannot be copied in whole or in part without prior permission from COMITRONIC company. All rights reserved



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