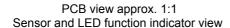
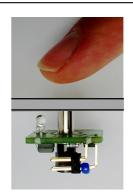


Capacitive Sensorbutton LM-KT







Application example: sensor operation through glas by touch with a finger

- Sensorbutton based on capacitive technology especially designed for LM series-tableaus
- Problem-free installation: no boring and screwing in the panel / mother board
- Durabel against environmental influences, the button lies behind the panel, protected against contamination and sabotage
- Maintenance-free optocoupler output, corrosion and bounce-free.
- Function indicator
- Adaptive procedure guarantees reliable operation; maximum switch-on time up to the recalibration 12 s
- 12 Vdc 24 Vdc supply voltage also pole protected, low quiescent current
- · Also Several buttons insertable into a tableau
- **(Eiving/business and trade range**

Function

The sensorbutton reacts to capacitive change of the environment e.g. by approximation of a finger. Slow changes of the site conditions are faded out by its adaptive behavior and thus a safe switch-on behavior is ensured. For safety reasons the button accomplishes a recalibration also in the switched state after 10 s and switches output off.

The integrated LED works as direct function indicator. With the output optocoupler output can be switched small currents directly.

Installation

Put the sensorbutton with the metalsensor and the function LED backlaterally via the slit foil into the drilled plate, build up connection with the jumpercable. Attention: Do not wire further cables directly across the sensors. Keep a distance of 20 mm to further energized parts.

Capacitive sensor tracer LM-KT

Supply voltage +Ub: 12 - 24 Vdc
Power input (stand by): 4.2 mA (24 Vdc)
Power input (max.): 6.2 mA (24 Vdc)
Ub-voltage raising trmax: ≤100 ms ¹)

Inputs

+Ub / GND 2-pole on bent pin terminal

Outputs

collector / emitter 2-pole on bent pin terminal

Output optocoupler

Maximum stress (max.): 24 Vdc / 18 mA Collector emitter Voltage: Uce = 2.5 Vdc Energy dissipation (max.): 50 mW

Indicator LED 3 mm red

Switch on time to recalibration 10 s - 12 s

Temperature range $0 - 50 \,^{\circ}\text{C}$ Humidity $\leq 75 \,^{\circ}\text{r.H.}$, not condensing

Dimensions (B ×H ×T): 21 ×21 ×7 mm plus metalsensor, 5 mm \emptyset , 8 mm length

Supply schedule

with 4-pol. jumpercable with cube socket; length 750 mm

Accessories

Driver pcb for higher contact rating; 4-pole extension line

 When supply voltage is connected to the LM-KT, the optocoupler-output switched on for at least 100 us. Avoid spikes (power breakdowns) on the power supply and place – if necessary - an emergency power supply.

Operational areas tableau

In tableaus of the LM series in combination with the indicator pcbs VK-16 and VMC-16 or also Nips bus system as lamp test-, buzzer-reset and and memory –reset button.

00728.1 (July 00)

Building Groups				