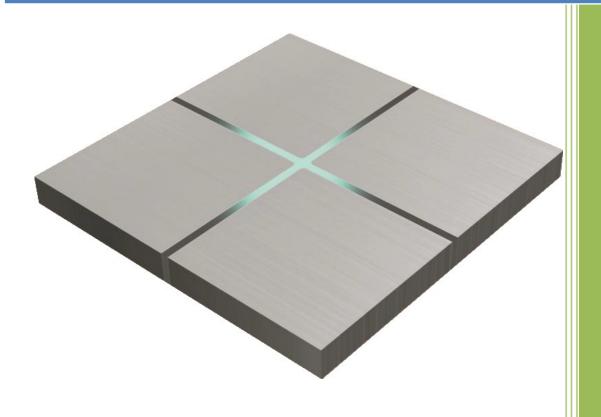


Light Control -KNX Metal Touch Panel 4-Fold User Manual





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Copyright Clarify

Version

Version No.	Release Date	Description
V1.0	March 28 th , 2018	1 st Release

Notice

- 1. Please read this user manual carefully before using the product.
- 2. This product is used in indoor environment and installed in electrical control box.
- 3. Please install this product in a dry and ventilated place.
- 4. Before power on, please confirm the input voltage according to the manual; after power on, please confirm the normal output voltage before connecting to the control bus.
- 5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident.
- 6. This product is NOT a toy, please make sure it is out of children touch.
- 7. Only be suitable for EIB/KNX system bus.
- 8. Others:

The below sign indicates this product can't be dealt as ordinary family rubbish, in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.





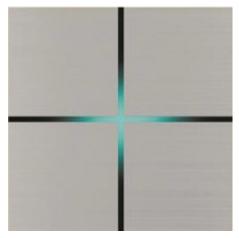
1 Metal Touch Panel

1.1 Light Control Electrical Parameters of Metal Panel

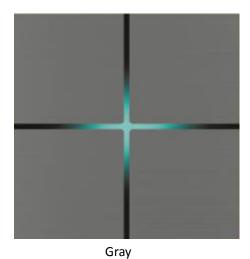
Supply way	KNX-Bus Feed Supply current Power consumption Channel	DC 21V31V < 15mA < 0.5W 4-fold 12mA		
	Rated current	12111A		
mechanical	Fingerless toughened glass panel	1.5mm/80boxes;		
characteristic	Alloy chrome plated frame	1.5mm/80boxes;		
Characteristic	Standard KNX Control Line Definition, Installation Mode of BCU Inner Box	80boxes/86boxes Optional;		
Lifetime	ON-OFF operation life	Unlimited		
LIICHIIC	Electrical life: >10 years			
External connections	KNX-TP1	Twin cable comply meet KNX standard are required		
0 4: 1	Auxiliary terminal	LED		
Operating and	Push button and corresponding indicator	LED		
display element	switch position	LED		
Englogung	tone	Configurable; EN60529		
Enclosure	IP61 II	EN60329 EN61140		
Safety class	Overvoltage	EN60664-1 III		
Insulated isolation	Power grid pollution	EN60664-1 111 EN60664-1 2		
KNX safety	rower grid politition	24V DC		
voltage	SELV	24 V DC		
	Operation	-5°C+45°C (3K5series)		
Temperature range	Storage	-25°C+55°C		
	Transport	-30°C+70°C		
Ambient conditions	Maximum humidity	95%		
Mechanical	volume	80 X 80 X 10); (86 X 80 X 10);(86 X 86 X 33)		
parameters	Weight	0.03kg		
	Installation	80/86		
Appearance	Silvery ,gray ,black	Color code: PANTONE BLACK 6C		
Approvals	KNX EN50090-1\-2			



1.2 **Product Appearance**



Silvery



Black



2 Overview Function

This booklet provides all the details for the SATION Touch panel, including the installation and programming details. For easy installation,, the product of this series comply with International Installation Standard, mounted on 80mm or 86mm concealed wall socket.

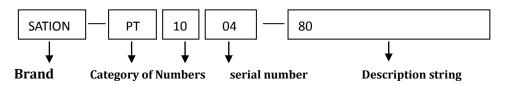
LC-PBBZ04W-TP product is used for controlling various KNX actuators,eg. ——Panel controller ——Light modulator ——Function Unit needs human-computer interface
Through the KNX bus and other equipment, it is installed as the control system of building electrical equipment.
The system can be debugged conveniently by using ETS, an engineering debugging tool
2.1Product Specific Function Description
SATION Touch Series panel controllers can choose single key (gesture recognition) 4-key common specifications and other personalized models, connect to the system network using KNX bus terminals, and control various KNX actuator devices without additional power supply. Distribution of physical addresses and setting of parameters are accomplished by engineering design tool software ETS with VD3/VD4 files (version ETS 3 v1.3 or more). If ETS 4/5 software is used, VD4 files need to be installed. This panel controller was used as artificial control interface for indoor electrical equipment. Every button controls the function corresponding to the goal node, every way is with equipment on/off status indication
Touch panel can work as two modes below. Channel grouped function —Dimming: edge switch, short/long keystroke dimming. —Shutters: The short keystroke (Stop/Blinds Adjustment), The long keystroke(Shutter Down/up) —Switch: edge control
Channel unique function ——Switch: edge control, short/long keystroke control, edge reversal. ——Scene: Saving function, select different scene ——One Button Dimming: The long keystroke addresses the communication object "Dimming on/off". ——One Button Shutter: The long keystroke performs up- and down- movement of the shutter. The short keystroke performs adjust the blinds and stops a running
movement of the shutter.

The upper two models are support blocking object, object and/or logical operation, as

well as behavior of power up/ behavior of power down on the device.



2.2Model Naming Rules and Model List:



Model List: (The grey model is a non-main model and needs to be ordered)

Model	PT1014
Channel	4
Status indicator	1
supply	KNX-BUS
consumption <	0.5W
Bus interface	KNX-BUS
IP level	IP61

3 Technical Performance and Size, Connection Diagram

3.1 **Application Data**

SATION panel controller is a modular installation equipment according to the national standard design requirements, which is convenient to install on the wall boxes reserved for building walls. Connect to EIB/KNX system through BCU unit in wall box.



The panel is assembled with standard components in the wallbox through a connector with no less than 5 bull pull-in force. A convenient disassembly structure design enables users to directly replace the key indication graphics or text on site, thus realizing the personalized application of keys.

At present, panel color can be provided: pure black, ivory white, sapphire, golden yellow four colors;

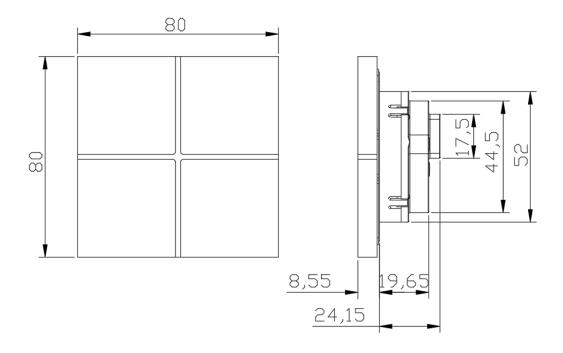
Power supply - working voltage 21... 31 V DC, bus provided;

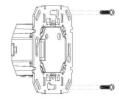
```
—EIB / KNX Static current consumption < 15 mA
   —EIB / KNX Power consumption Max. 500mW
Switching Performance (Contacts)
   —Maximum electrostatic discharge: 4kv/10 times per minute
   —Maximum electrostatic air discharge: 8kv/10 times per minute
   —Maximum response time: 500ms
Service life:
   -Mechanical life is unlimited
   —Electrical life is IEC 60 947-4-1, 10-year shelf life
Connect:
   —EIB / KNX Bus connection terminal (diameter 0.8mm)
Operations and instructions:
   —Key Assignment Physical Address, Programming;
   —The application layer of LED scintillation indicator device on BCU works normally.
   -Controlled Target Disconnection: Dimmer Indicator
Shell:
  -Panel IP61; BCU IP50; BasisEN60529
Safety Level:
   —II ; Basis EN61140
temperature range:
  ——Operation -5 °C ... + 45 °C
  ——Storage-25... + 55 °C
  —Transport − 30 °C ... + 70 °C
 environment condition:
  —Humidity < 93%, except dew
Weight: Not more than 0.25kg;
```



3.2 Dimension Diagram and Application Connection Diagram

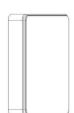
3.2.1 LC-PBBZ04W













5.1 LC-PBBZ04W series panel electromagnetic compatibility(CE) standards in the chart below:

items	NO	Require level	Performance	Remarks
ESD (EN61000-4-2)		Contact 4KV/ Air 8KV	В	
RS (EN61000-4-3)		80MHz-2GHz: 3V/m 2G-2.7GHz: 1V/m	A	
EFT (EN61000-4-4)		±1KV	В	
SURGE		L-N ±1KV	В	
(EN61000-4-5)	EN61000-6-1	L-PE ±2KV	В	
C/S (EN61000-4-6)		3V	A	
M/F (EN61000-4-8)		3V/m	A	
DIPS (EN61000-4-11)		0 % residual voltage 0,5 cycle 0 % residual voltage 1 cycle 70 % residual voltage 25/30 at 50/60Hz cycle 0 % residual voltage 250/300 at 50/60Hz cycle	В &С	
Conducted	EN61000-6-3	66dB(μV) - 56 dB(μV) QP 56dB(μV) - 46 dB(μV) AV	A	0.15MHz-0.5M Hz
interference		56 dB(μV) QP 46 dB(μV) AV	A	0.5MHz-5MHz
		60dB(μV) QP 50dB(μV) AV	A	5MHz-30MHz
Dedicted interference		40 dB(μV/m)	A	30MHz-230MH z
Radiated interference		47 dB(μV/m)	A	230MHz-1000 MHz
Harmonic current	EN61000-3-2		A	
Voltage fluctuation	EN61000-3-3		В	

Remark 1: The above standard level requirement from KNX standard 4-2 roll.

Remark 2: Performance A: Do not allowed errors; Performance B: Allowing errors.



$5.\ 2\ \text{LC-PBBZ04W}$ series panel safety specification (CE) standard in the chart

below.:

Items		Require level	performance	Remarks
	NO			
	EN6094			
	7-3			
Insulation strength test	√	2		
Inflaming retarding test	√	2		
Temperature rise test	√	2	A	
Corrosion resisting test	√	2	A	
Electrical life test	√	2	A	
On-off volume control test	V	2	A	
Normal operation test	√	2	A	

www.Lightcontrol-knx.com