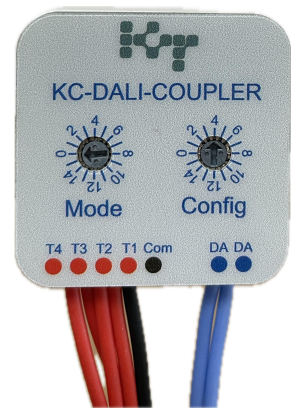


## Feature

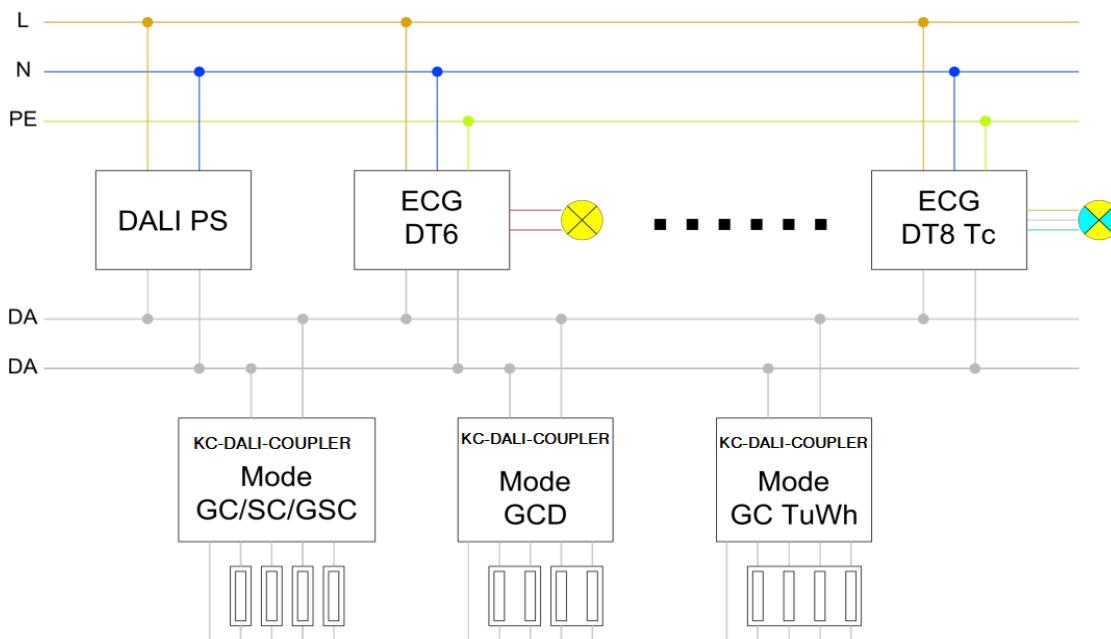
- .Model: KC-DALI-COUPLER
- .Mini DALI-2 coupler with four potential-free inputs for push-buttons
- .Multi-master capable: 4 push buttons, compatible with DALI-2 certified Application Controller
- .Single-master capable: In addition to the standard DALI commands, the application controller also supports DALI DT8 TC.
- .Identify device using inner buzzer
- .Powered by DALI-2 bus, typical current 3mA, maximum 5mA
- .Small size, suitable for installation in 86 box
- .Three-year warranty

Table 1 KC-DALI-COUPLER operating mode

Position	Mode	DALI	description
0	ID	IEC62386-301	DALI-2 input device
1	GC	IEC62386-103 Single -master application controller	Group controller ( single button )
2	GCD		Group controller ( dual buttons )
3	GC TuWh		Group controller ( tunable white )
4	SC		Scene controller
5	GSC 0		Group scene controller 0
6	GSC 4		Group scene controller 4
7	GSC 8		Group scene controller 8
8	GSC 12		Group scene controller 12



## Typical application



## Operating modes

The Mode rotary selector switch is used to set the operating mode. Every letter 0-8 on the Mode rotary selector switch stands for an operating mode specified on the device. If the rotary selector switch is not turned to a valid position, the coupler will not function.

## "ID" Operating mode

Rotary selector switch position 0, coupler as an input device with 4 buttons, compatible with DALI-2 certified application controller.

## "GC" Operating mode

“Mode” rotary selector switch position 1, coupler as an group controller with 4 buttons. Single momentary-action switches can be used to switch luminaire groups on/off and brighten or dim them.

The Config rotary selector switch is used to assign different groups to input T1-T4.

Commands send out:

- Short press ( command A/B toggle) — CMD A: OFF  
CMD B: Recall Max Level
- Long press ( command C/D toggle) — CMD C: DOWN  
CMD D: UP

Table 2 Optional group in GC operating mode

Config	T1	T2	T3	T4
0	Group 0	Group 1	Group 2	Group 3
1	Group 1	Group 2	Group 3	Group 4
2	Group 2	Group 3	Group 4	Group 5
3	Group 3	Group 4	Group 5	Group 6
4	Group 4	Group 5	Group 6	Group 7
5	Group 5	Group 6	Group 7	Group 8
6	Group 6	Group 7	Group 8	Group 9
7	Group 7	Group 8	Group 9	Group 10
8	Group 8	Group 9	Group 10	Group 11
9	Group 9	Group 10	Group 11	Group 12
10	Group 10	Group 11	Group 12	Group 13
11	Group 11	Group 12	Group 13	Group 14
12	Group 12	Group 13	Group 14	Group 15
13	Group 13	Group 14	Group 15	Group 0
14	Group 14	Group 15	Group 0	Group 1
15	Broadcast			

### “GCD” operating mode

“Mode” rotary selector switch position 2, coupler as an group controller with 4 buttons, double momentary-action switches can be used to switch luminaire groups on/off and brighten or dim them.

The Config rotary selector switch is used to assign different groups to input T1 and T2 and input T3 and T4. The table 3 uses the rotary selector switch position to indicate which group is assigned to the inputs.

Commands send out :

- T1 short press —— CMD A: OFF  
Long press —— CMD C: DOWN
- T2 short press —— CMD A: Recall Max Level  
Long press —— CMD C: UP
- T3 short press — CMD A: OFF  
Long press — CMD C: DOWN
- T4 short press — CMD A: Recall Max Level  
Long press — CMD C: UP

Table 3 Optional group in GCD operating mode

Config	T1	T2	T3	T4
0	Group 0		Group 1	
1	Group 1		Group 2	
2	Group 2		Group 3	
3	Group 3		Group 4	
4	Group 4		Group 5	
5	Group 5		Group 6	
6	Group 6		Group 7	
7	Group 7		Group 8	
8	Group 8		Group 9	
9	Group 9		Group 10	
10	Group 10		Group 11	
11	Group 11		Group 12	
12	Group 12		Group 13	
13	Group 13		Group 14	
14	Group 14		Group 15	
15	Broadcast			

### “GC TuWh” operating mode

“Mode” rotary selector switch position 3, coupler as an group controller with 4 buttons.

The Config rotary selector switch is used to assign a group to all inputs. The intensity of the group can be changed with input T1 and T2 and the colour temperature of Tunable White luminaires in the group can be changed with input T3 and T4. The table 4 uses the rotary selector switch position to indicate which group is assigned to the PBC317.

Commands send out :

- T1 short press — CMD A: OFF  
Long press — CMD C: DOWN
- T2 short press — CMD A: Recall Max Level  
Long press — CMD C: UP
- T3 short press — CMD A: tc step warmer  
Long press — CMD C: tc step warmer
- T4 short press — CMD A: tc step cooler  
Long press — CMD C: tc step cooler

Table 4 Optional group in GC TuWh operating mode

Config	T1	T2	T3	T4
0	Group 0			
1	Group 1			
2	Group 2			
3	Group 3			
4	Group 4			
5	Group 5			
6	Group 6			
7	Group 7			
8	Group 8			
9	Group 9			
10	Group 10			
11	Group 11			
12	Group 12			
13	Group 13			
14	Group 14			
15	Broadcast			

### “SC” operating mode

“Mode” rotary selector switch position 4, coupler as an scene controller with 4 buttons.

The Config rotary selector switch is used to assign different scenes to inputs T1–T4. The table 5 uses the rotary selector switch position to indicate which scene is assigned to the inputs.

Commands send out :

- T1 short press — CMD A: GO TO SCENE  $y$
- T2 short press — CMD A: GO TO SCENE  $y + 1$
- T3 short press — CMD A: GO TO SCENE  $y + 2$
- T4 short press — CMD A: GO TO SCENE  $y + 3$

Table 5 Optional scene in SC operating mode

Config	T1	T2	T3	T4
0	SCENE 0	SCENE 1	SCENE 2	SCENE 3
1	SCENE 1	SCENE 2	SCENE 3	SCENE 4
2	SCENE 2	SCENE 3	SCENE 4	SCENE 5
3	SCENE 3	SCENE 4	SCENE 5	SCENE 6
4	SCENE 4	SCENE 5	SCENE 6	SCENE 7
5	SCENE 5	SCENE 6	SCENE 7	SCENE 8
6	SCENE 6	SCENE 7	SCENE 8	SCENE 9
7	SCENE 7	SCENE 8	SCENE 9	SCENE 10
8	SCENE 8	SCENE 9	SCENE 10	SCENE 11
9	SCENE 9	SCENE 10	SCENE 11	SCENE 12
10	SCENE 10	SCENE 11	SCENE 12	SCENE 13
11	SCENE 11	SCENE 12	SCENE 13	SCENE 14
12	SCENE 12	SCENE 13	SCENE 14	SCENE 15
13	SCENE 13	SCENE 14	SCENE 15	SCENE 0
14	SCENE 14	SCENE 15	SCENE 0	SCENE 1
15	SCENE 15	SCENE 0	SCENE 1	SCENE 2

### “GSC x” operating mode

“Mode” rotary selector switch position 5, 6, 7 or 8, coupler as an group-scene controller with 4 buttons. The Mode rotary selector switch is used to assign different scenes to inputs T1–T4, the table 6 uses the Config rotary selector switch position to indicate which group is assigned to the PBC317.

“Mode”switch position 5,Commands send out:

- T1 short press —— CMD A: GO TO SCENE 0
- T2 short press —— CMD A: GO TO SCENE 1
- T3 short press —— CMD A: GO TO SCENE 2
- T4 short press —— CMD A: GO TO SCENE 3

“Mode” select position 6,Commands send out:

- T1 short press —— CMD A: GO TO SCENE 4
- T2 short press —— CMD A: GO TO SCENE 5
- T3 short press —— CMD A: GO TO SCENE 6
- T4 short press —— CMD A: GO TO SCENE 7

“Mode”switch position 7,Commands send out:

- T1 short press —— CMD A: GO TO SCENE 8
- T2 short press —— CMD A: GO TO SCENE 9
- T3 short press —— CMD A: GO TO SCENE 10
- T4 short press —— CMD A: GO TO SCENE 11

“Mode” select position 8,Commands send out:

- T1 short press —— CMD A: GO TO SCENE 12
- T2 short press —— CMD A: GO TO SCENE 13
- T3 short press —— CMD A: GO TO SCENE 14
- T4 short press —— CMD A: GO TO SCENE 15

Table 6 Optional group in GSC x operating mode

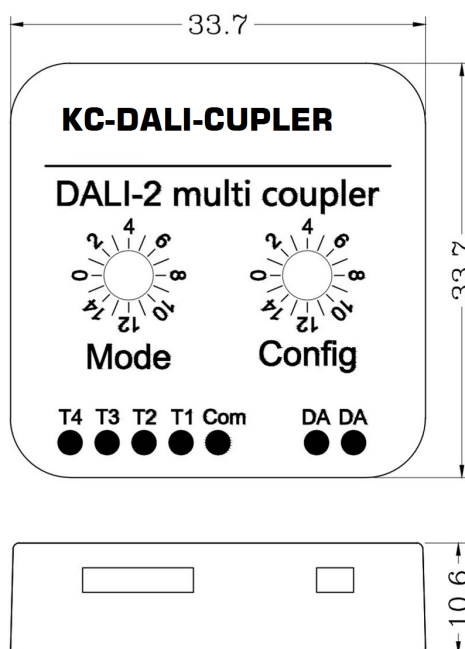
Config	T1	T2	T3	T4
0	GROUP 0			
1	GROUP 1			
2	GROUP 2			
3	GROUP 3			
4	GROUP 4			
5	GROUP 5			
6	GROUP 6			
7	GROUP 7			
8	GROUP 8			
9	GROUP 9			
10	GROUP 10			
11	GROUP 11			
12	GROUP 12			
13	GROUP 13			
14	GROUP 14			
15	GROUP 15			

Mode	KC-DALI-COUPLER
DALI standard	IEC62386-101:2014, IEC62386-103:2014, EC62386-301:2017
DALI output type	DALI and DALI-2, single-master and multi-master
Power supply	Dali bus , max. current consumption us 5mA
Terminal	floating contact, standard momentary switches
	minimum length of control pulse :24ms
	max wire length : 20cm
mounting	back box installation, installation in protection class II devices
Connection wires	10cm wires, stripping length 6mm
Operating conditions	-20-35°C, 10-85%RH, noncondensing
Storage conditions	-30 ~ 55°C, 10-85%RH, noncondensing

### Instance number

T1' s instance number is 0, T2 is 1, then T3 is 2, and T4 is 3.

### Dimensions



### Precautions

- ◆ The KC-DALI-COUPLER is powered by the DALI bus. Do not connect the device to AC strong power or other other systems, otherwise it will cause damage to the device other
- ◆ DALI bus does not belong to safety extra-low voltage, please follow the same safety regulations as AC strong electricity