# ATTACHMENT CONVERTER KNX-306-72-DRI-LL-IN





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# 1. SUMMARY

KNX-306-72-DRI-LL-IN can install to be system with KNX bus and other device, which are mainly use in building control system. The functions are both simple to operate and intuitive, users can program it according to the requirement to implement the function systematically.

This manual provides technical information about KNX-306-72-DRI-LL-IN in detail for users as well as assembly and programming, and explains how to use KNX-306-72-DRI-LL-IN by the application examples.

# 1.1. PRODUCT AND FUNCTIONAL OVERVIEW

KNX-306-72-DRI-LL-IN achieve the functional applications via conventional push buttons/switches, communicate by technical binary, which are used to control the devices such as the dimmer Actuator/the Switch Actuator, to control domestic appliance indirectly. At the same time, they also enable the control of LEDs. The extremely compact design enables the device to be inserted in a conventional 60mm wiring box.

KNX-306-72-DRI-LL-IN are connected directly to the bus via the EIB terminal blocks and have no use for additional supply voltage . It is available to assign the physical address and set the parameters by Engineering design tools ETS (version ETS5 or higher).

The main functions of Universal interfaces are as following:

- Switching and dimming function.
- Control of blinds and shutters.
- Sending of values e.g. temperature values, water line.
- Recalling and storing of scenes.
- Trigger an LED for reporting an operation.
- Operation of various loads by multiple push button actions

Each channel of a device can adopt any of the functions described above.

# 2. TECHNICAL PARAMETER, DIMENSION AND WIRING DIAGRAM

# 2.1. TECHNICAL DATA

Power supply	working voltage	DC 21-30V,via KNX bus							
	6-fold input	Can be individually configured per input							
	6-fold LED	Can be individually configured per LED							
In nut (Qutnut	Input scanning voltage	DC 20V							
input/output	Input current	0.5mA							
	LED output voltage	DC 11-12V							
	LED output current	Max 1mA							
Operating	Programming LED and button	For assignment of the physical address							
and display	Green LED flashing	Indicate the application layer running normally							
	running	−5 °C 45 °C							
Temperature	Storage	–25 °C 55 °C							
	Transport	-25 °C 70 °C							
Environment	humidity	<93%, except dewing							
Protection level	IP 20	(EN60529)							
Security level	III								
CE Standard	meets EMC and low-voltage standard								
Certificate	EIB/KNX certificate	, meets EN50 090-1, -2 certificate							
Installation	flush mounted	60mm wall-box							
Size	49.3mm×49	P.3mm×22.85mm(L×W×H)							
Weight	0.05 KG								

# 2.2 DIMENSION



2.3 WIRING DIAGRAM



Programming Button
 Programming LED
 LED and key terminal
 KNX/EIB bus terminal

# 3. PARAMETER SETTING DESCRIPTION IN THE ETS

# 3.1. PARAMETER WINDOW "INPUT X"

Take one of the input channel as example to explain the parameter:

Input A	Function of the channel	Switch	•						
Input B	Connect type	Normally open Normally close							
Input C									
Input D	Distinction between long and short operation	No Ves							
Input E	Send object value after voltage recovery ( yes,no TOGGLE)	if 🖲 No 🔘 Yes							
Input F	Reaction on short operation or closing the	e ON	•						
LED	contact								
Switch output config	Reaction on long operation or opening the contact	OFF	•						
Output A-1	Debounce time	50ms	•						
A-1: Scene	Disable function	🔘 disable 🔘 enable							
Output B-1	• · · · · · · · · · · · · · · · · · · ·	ø disable=1/enable=0							
B-1: Scene	Trigger value of disable object	disable=0/enable=1							

Fig 3.1 parameter window "Input X-Switch"

## "Function of the channel"

This parameter for setting the function of input, if option is "No function", the input function is disable.

Options:

No function Switch Switch/Dimming Value/Force output Scene control Shutter control

The following shows detail parameter of each function.





# 3.1.1. "SWITCH" FUNCTION

"Switch" parameter window shown as 4.1

### "Connect type"

This parameter for setting the connect type for the contact.it is used to define whether the contact is a normally open contact or a normally close contact in general.

Options:

Normally open Normally close

The parameters presented in this chapter are all in terms of Normally open types; Normally closed types operate in the opposite way to Normally open types.

### "Distinction between long and short operation"

This parameter sets whether the input distinguishes between a short and long operation. If "yes" is selected, there is a waiting period after the opening/closing of the contact to determine whether the operation is long or short. Only then is a possible reaction triggered. The following drawing clarifies the function:



### NOTE:

The long operation in the below chapters are the same with here. TL for time of long operation.

Options: Yes/No

### "Send object value after voltage recovery (if yes, no TOGGLE)."

This parameter for setting whether to send the current value of object "Switch" to the bus after bus recovery. The parameter is visible if there is no distinction between a short and long operation.

### Options: Yes/No

If the parameter "Yes" is selected, it will send the current value on the bus. Only when the value "Toggle" has not been set in either of the two parameters "Reaction on short operation or closing the contact"/"Reaction on long operation or opening the contact", the value of the object can be send on the bus. If one of the two parameters has the value "TOGGLE", no values are sent in general on the bus after bus voltage recovery. If "No reaction" is selected, there is no values are sent on the bus either.

### "Long operation after (\*0.1s)"

This parameter is visible when select to distinguish long/short operation. Set the valid time for long operation.. The period TL is defined here, after which an operation is interpreted as "long".

Options: 3...25

# "Reaction on short operation or closing the contact"/"Reaction on long operation or opening the contact"

These parameters are for setting the reaction on press/release the contact or on short/long operation. The object values are updated immediately when the input is confirmed.

Options:

No action
ON
OFF
Toggle

"No action", no telegram to be sent;

"ON", send on telegram;

"OFF", send off telegram;

"Toggle", each operation will toggle the switch between on and off, if send an. On telegram(or received) at the last, then the next operation will trigger an Off telegram. When the contact is operated again, it will send an On telegram, etc. So the contact will always remember the previous status and covert to opposite value during next operation.

### "Debounce time'

This parameter is for setting the debounce time to avoid the unnecessary operations which is caused by the contact triggered multiple times in bouncing time, debounce time is the valid time of the contact operation.

Options: 10ms/20ms/.../150ms

"Disable function"

Options:

This parameter for setting whether to enable the disable function of the contact.

Disable

Enable

If "Enable". the input can be disabled or enabled by the object.

### "Trigger value of disable object"

This parameter is visible when previous parameter is enabled. Set the trigger value of disable/enable the contact.

Options:

Disable=1/enable=0 Enable=0/enable=1

# 3.1.2. "SWITCH / DIMMING" FUNCTION

"Switch / Dimming" parameter window shown as fig.3.2.

Input A	Function of the channel	Switch/Dimming						
Input B	Connect type	Normally open O Normally close						
Input C								
Input D	Long operation after(*0.1s)	3	-Q)					
Input E	Reaction on short operation	TOGGLE	•					
Input F	Reaction on long operation	brighter/darker	•					
LED	Dimming mode	Start-stop-Dimming Steps dimming						
Switch output config	Brightness change on every sent	100%	•					
Output A-1	Interval of Tele.cyclic send(*0.1s,0=send	3	\$					
A-1: Scene	once)							
Output B-1	Debounce time	50ms	*					
B-1: Scene	Disable function	🔘 disable 🔘 enable						
Output C-1	Trigger value of disable object	ø disable=1/enable=0						
C-1: Scene		Ø disable=0/enable=1						

Fig 3.2 Parameter window "Input X-Switch/Dimming"

### "Connect type"

This parameter defines whether the contact at the input is a normally open contact or a normally closed contact.

Options: Normally open Normally close

The parameter introduced in this chapter is use "Normally open" as the example, the normally close is just opposite.

### "Long operation after (\*0.1s)"

This parameter is visible when select to distinguish long/short operation. Set the valid time for long operation. The period TL is defined here, after which an operation is interpreted as "long".

Options: 3...25

### "Reaction on short operation"

This parameter is for setting the reaction on short operation.

No action ON OFF

Toggle

"No action": no telegram to be sent:

"ON", send on telegram;

Options:

"OFF", send off telegram;

"Toggle", each operation will toggle the switch between on and off.





# "Reaction on long operation"

This parameter is for setting the reaction on long operation to send relative dimming value.

Options:

Brighter Darker Toggle

Brighter", send the dimming up value;

"Darker", send the dimming;

"Toggle", Each operation will switch between brightening and dimming.

### NOTE:

In the options of "TOGGLE" and "Brighter/Darker", there are a linkage between the received switch status and the dimming. For example, if receive an On value from object "Switch" at the last, then it will be darker in next dimming operation. If receive an Off value first, then it will be brighter in next dimming operation.

### "Dimming mode"

This parameter is for setting the mode of relative dimming.

Options:

Start-stop dimming

Steps-dimming

If "Start-stop dimming" is selected, the dimming mode is start-stop dimming; it begins the dimming process with a dim darker or brighter telegram and ends the dimming process with a stop telegram. Cyclical sending of the dimming telegram is not required in this case.

If "Step dimming" is selected, the dimming mode is step dimming, the dimming telegram is sent cyclically during a long operation. Once the operation has finished, a stop telegram ends the dimming process.

### "Brightness change one very sent"

This parameter is visible when "Step dimming" is selected. Set the brightness (%) that can be changed by the dimming telegrams sent cyclically.

Options: 100% 50%

1.56%

### "Interval of Tele. Cyclic send (\*0.1s, 0=send once)"

This parameter is visible when parameter "Dimming mode" is chosen as "steps dimming" it is used to set the time interval of cyclical blinds angle adjustment telegram sent.

Options: 0...25

### "Debounce time"

This parameter is for setting the debounce time to avoid the unnecessary operations which is caused by the contact triggered multiple times in bouncing time, debounce time is the valid time of the contact operation.

Options: 10ms/20ms/.../150ms

### **Options**"Disable function"

This parameter for setting whether to enable the disable function of the contact. Options: Disable/Enable

options. Disable/Enable

If "Enable", the input can be disabled or enable by the object.

### "Value of disable object"

This parameter is for setting the trigger value of disable /enable object.

Options:

Disable=1/enable=0 Enable=0/enable=1

# 3.1.3. "VALUE / FORCE OUTPUT" FUNCTION

"Value / Force output" parameter window shown in Fig. 3.3

Input A	Function of the channel	Value/Forced output	•
Input B	Connect type	Normally open O Normally close	
Input C	Distinction batween long and short		
Input D	operation	🔍 No 🔘 Yes	
Input E	Reaction on short operation or closing the contact	No reaction	•
Input F	Reaction on long operation or opening	No reaction	•
LED		-	
Switch output config	Debounce time	50ms	+
Output A-1	Disable function	🔘 disable 🧕 enable	
A-1: Scene	Trigger value of disable object	disable=1/enable=0	

Fig. 3.3 Parameter window "Input X-Value/Forced output"

### "Connect type"

Options:

It is used to define whether the contact is a normally open contact or a normally close contact in general.

Normally open Normally close

The parameter introduced in this chapter is use "Normally open" as the example; the normally close is just opposite.

### "Distinction between long and short operation"

This parameter sets whether the input distinguishes between a short and long operation. If "yes" is selected, there is a waiting period after the opening/closing of the contact to determine whether the operation is long or short.

Options: yes/No

### "Long operation after (\*0.1s)"

This parameter is visible when select to distinguish long/short operation. Set the valid time for long operation. The period TL is defined here, after which an operation is interpreted as "long".

Options: 3...25

# "Reaction on short operation or closing the contact" / "Reaction on long operation or opening the contact"

This parameter is for setting the data type to be sent when the contact is operated in press/release or long/short operation.

Options: No reaction

1bit value [0/1]

2byte value [0...65535]

### "Output value[...]"

This parameter is used to define the data value sent after operation, range of the value is defined by the data type chosen by last parameter.

### "Debounce time"

This parameter is for setting the debounce time to avoid the unnecessary operations which is caused by the contact triggered multiple times in bouncing time, debounce time is the valid time of the contact operation.

Options: 10ms/20ms/.../150ms

### "Disable function"

This parameter for setting whether to enable the disable function of the contact. Options: Disable/Enable

If "Enable", the input can be disabled or enable by the object.

#### "Trigger value of disable object"

Set the trigger value of disable /enable object.

Options:

Disable=1/enable=0 Enable=0/enable=1





# 3.1.4. "SCENE CONTROL "FUNCTION

"Scene control" parameter window showing as Fig. 3.4.

Input A	Function of the channel	Scene control					
Input B	Connect type	Normally open Normally close					
Input C	Distinction between lane and sheet						
Input D	operation	No Ves					
Input E	Reaction on short operation or closing the contact	No reaction	•				
Input F	Reaction on long operation or opening	No reaction	•				
LED	and condition						
Switch output config	Debounce time	50ms	•				
Output A-1	Disable function	O disable 💿 enable					
A-1: Scene	Tringer value of disable object	disable=1/enable=0					
Output B-1	rigger value of diabole object	disable=0/enable=1					

Fig3.4 Parameter window "Input X-Scene control"

### "Connect type"

This parameter for setting the connect type for the contact.it is used to define whether the contact is a normally open contact or a normally close contact in general.

Options:

Normally open Normally close

The parameters presented in this chapter are all in terms of Normally open types; Normally closed types operate in the opposite way to Normally open types.

### "Distinction between long and short operation"

This parameter sets whether the input distinguishes between a short and long operation. If "yes" is selected, there is a waiting period after the opening/closing of the contact to determine whether the operation is long or short.

Options: yes/No

### "Long operation after (\*0.1s)"

This parameter is visible when select to distinguish long/short operation. Set the valid time for long operation. The period TL is defined here, after which an operation is interpreted as "long".

Options: 3...25

# "Reaction on short operation or closing the contact" / "Reaction on long operation or opening the contact"

This parameter is for setting recall scene or store scene for the press/release or short/long operation of the contact.

Options:

No reaction Recall scene Store scene

### "Scene number (1..64)"

This parameter is for setting scene number, range: Scene N0.1~64, according telegram is 0~63.

### "Debounce time"

This parameter is for setting the debounce time to avoid the unnecessary operations which is caused by the contact triggered multiple times in bouncing time, debounce time is the valid time of the contact operation.

Options: 10ms/20ms/.../150ms

### "Disable function"

This parameter for setting whether to enable the disable function of the contact.

Options: Disable/Enable

If "Enable", the input can be disabled or enable by the object.

### "Trigger value of disable object"

This parameter is set the trigger value of disable/enable the contact.

Options:

Disable=1/enable=0 Enable=0/enable=1

### 3.1.5. "SHUTTER CONTROL" FUNCTION

"Shutter control" parameter window is shown as Fig.3.5.

Input A	Function of the channel	Shutter Control	•
Input B	Connect type	Normally open O Normally close	
Input C			
Input D	Long operation after(*0.1s)	3	÷
Input E	Reaction on short operation	Up/Down	•
Input F	Reaction on long operation	Stop(Adjust Up/Down)	•
LED	Interval of Tele.cyclic send(^0.1s,0=send once)	3	\$
Switch output config	Debounce time	50ms	•
Output A-1	Disable function	O disable 💿 enable	
A-1: Scene			
Output B-1	Trigger value of disable object	<ul> <li>disable=1/enable=0</li> <li>disable=0/enable=1</li> </ul>	

Fig 3.5 Parameter window "Input X-Shutter control"

### "Connect type"

This parameter for setting the connect type for the contact.it is used to define whether the contact is a normally open contact or a normally close contact in general.

Options:

Normally open

Normally close

This parameter for setting the connect type for the contact.it is used to define whether the contact is a normally open contact or a normally close contact in general.

### "Long operation after (\*0.1s)"

This parameter is for setting the valid time for long operation.The period TL is defined here, after which an operation is interpreted as "long".

Options: 3...25

### "Reaction on short/long operation"

This parameter is used to set the action when the input is short operation or long operation.

Options:

No action Up Down Up/Down Stop(Adjust Up) Stop(Adjust Down) Stop(Adjust Up/Down)

"No action", no action is performed;

"Up", shutter/blinds will be opened or moved up; "Down", the shutter/blinds will be closed or moved down;

"Up/Down", alternately open/close or move up/down the shutter/blinds

"Stop[Adjust Up]", stop the shutter movement or move up one angle of blinds; "Stop[Adjust Down]", stop the shutter movement or move down one angle of blinds:

"Stop(Adjust Up/Down)", stop the shutter movement or move up/down the angle of blinds alternately.

### "Interval of Tele. Cyclic send (\*0.1s, 0=send once)"

This parameter is visible when last one is chosen as "Stop...", it is used to set the time interval of cyclical blinds angle adjustment telegram sent.

#### "Debounce time"

This parameter is for setting the debounce time to avoid the unnecessary operations which is caused by the contact triggered multiple times in bouncing time, debounce time is the valid time of the contact operation.

Options: 10ms/20ms/.../150ms

### "Disable function"

This parameter is to set whether to enable the disable function of the contact. Options: Disable/Enable

If "Enable", the input can be disabled or enable by the object.





### "Trigger value of disable object"

This parameter is set the trigger value of disable/enable the contact.

Options: Disable=1/enable=0 Enable=0/enable=1

# 3.2. PARAMETER WINDOW "LED"

This parameter is for setting the LED function. There are 6-fold LED display, each can be configured separately, Take one of the LEDs parameter as example.

Input A	LED common polarity	common-Cathode
Input B	LED 1 function	
Input C	The object value='0',LED is	OFF ON
Input D	The object value='1',LED is	OFF ON
Input E	LED 2 function	
Input F	The object value='0',LED is	OFF ON
LED	The object value='1',LED is	OFF ON
Switch output config	LED 3 function	
	The object value='0',LED is	OFF ON
	The object value='1',LED is	OFF ON
	Fig 3.6 Parameter w	indow "LED"

### "LED common polarity"

This parameter comments on the polarity of the LED:common cathode.

### "LED X function"

"The object value='0/1', LED is"

This parameter is for setting LED status on or off when LED object received telegram "1" or "0".

Options: OFF/ON

# 4. COMMUNICATION OBJECT DESCRIPTION

The medium for One devices communicate with other devices on the bus is Communication object, Each communications object is detailed below.

### NOTE:

in the property column in the table below "C" Communications represents a communication object functionality is enabled, the "W" On behalf of a distribution object to rewriting across the bus, "R" On behalf of a distribution object's value can be read via the bus, "T" Represents a communication object with transfer function, "U" On behalf of a distribution object's value can be updated.

# 4.1. "INPUT X" COMMUNICATION OBJECT"

Number *	Name	Object Function	Description	Group Address	Length	С	R	V	/ Т	l	J Da	ta Type	Priority
■‡0	Input A	Short/Close,Switch			1 bit	С	14	W	т	-			Low
<b>z</b>  1	Input A	Long/Open,Switch			1 bit	С		W	Т	-			Low
<b>■</b> ‡ 2	Input A	Disable, A			1 bit	С		W	-	2			Low
		"Sı	witch" Fur	ction									
Number *	Name	Object Function	Description	Group Address	Leng	th	С	R	w	Т	UD	ata Type	Priority
20	Input A	Short, Switch			1 bit		с	-	W	т	- sv	itch	Low
<b>2</b> 1	Input A	Long, Dimming			4 bit		С		W	Т	- di	mming	Low
<b>₽</b> 2	Input A	Disable, A			1 bit		С	1	W		<u>9</u>		Low
		"Switch	/dimming	" Function									
Number *	Name	Object Function	Description	Group Address	Length	С	R	V	νT	1	J Da	ta Type	Priority
<b>‡</b>  0	Input A	Short/Close,1bit value			1 bit	С		2	Т	-			Low
≠1	Input A	Long/Open,1bit value			1 bit	С			Т	13			Low
2	Input A	Disable, A			1 bit	С	$\mathbb{C}^{2}$	W	2	12			Low
		"Value/F	orce outpu	ıt "Function									
Number *	Name	Object Function	Description	Group Address	Length	С	R	V	V T		U Da	ita Type	Priority
20	Input A	Short/Close,scene			1 byte	С	-	-	Т	1			Low
21	Input A	Long/Open,scene			1 byte	с		e.	Т				Low
₽2	Input A	Disable, A			1 bit	С	-	W	-	-			Low
		"Scen	e control"	Function									
Number *	Name	Object Function	Description	Group Address	Length	C	F	1	N	r I	U D	ata Type	Priority
<b>■</b> ≵ 0	Input A	Up/Down,Blind			1 bit	С	-		Т				Low
21	Input A	Stop/Adjust,Blind			1 bit	С	2	-	Т	1			Low
₹2	Input A	Disable, A			1 bit	с		W					Low

"Shutter control "Function

### 3.7 "Input X" Communication object

	•		-							
Object no	function	name	type	Property	DPT					
0	Short/Close, Switch	Input X	1bit	C,W, T	1.001DPT_Switch					
1	Long/Open, Switch	Input X	1bit	C,W, T	1.001DPT_Switch					
This ol corres to a lo	bject is use for triggering ponding to a short or ris ng or falling edge operat	g the switch ing edge ope ion.	operation. " eration."Lon	Short/Close" g/Open"is an	is an output object output object corresponding					
0	Short, Switch	Input X	1bit	C,W, T	1.001DPT_Switch					
This communication object is used for triggering the switch function. 0—off; 1—open										
1 Long, Dimming Input X 4bit C,W, T 3.007 DPT_Dimming contro										
This communication object triggers a relative dimming operation. When the telegram value is 1-7, it is down dimming, the larger the value in this range, the smaller the down dimming amplitude is, the largest down dimming amplitude is at 1, the smallest is at 7, and 0 is to stop dimming; when the input value is 9-15, it is up dimming, the larger the value in this range, the smaller the up dimming amplitude is, the largest up dimming amplitude is at 9, the smallest up dimming amplitude is at 15, and 8 is to stop dimming.										
0	Short/Close, 1bit/4bit/1byte/ 2byte value	Input X	1bit / 4bit / 1byte / 2byte	C,T	1.001 DPT_Switch/ 3.007 DPT_Dimming control/ 5.010 DPT_counter pulses 7.001 DPT_pulses					
1	Long/Open, 1bit/4bit/1byte/ 2byte value	Input X	1bit / 4bit / 1byte / 2byte	C,T						
This co is dete or clos	ommunication object is u ermined by the data type sing the contact"/ "React	ised to send Data type is ion on long o	input value set by para operation or	of contact,th meter"React opening the	e range of values can be sent ion on short operation contact"					
0	Short/Close, Scene	Input X	1byte	C,T	18.001 DPT_Scene Control					
1	Long/Open, Scene	Input X	1byte	C,T	18.001 DPT_Scene Control					
of the F: '0'r X: 0; NNNN Param	directive.Set up a 8bit Or ecall scene; '1' for stora INN: scenes no. (063). neter option is 1~64, rang	rders for the <b>ige scene;</b> ge NO.1~64 is	( Binary cod	dent to telegr	ram 0~63:					
	Object telegram valu	ie		De	scription					
	0 1 2  63			Reca Reca Reca	all Scene 1 all Scene 2 all Scene 3  Il Scene 64					
	128 129 130		Store scene 1 Store scene 2 Store scene 3 							
	191			Stor	e scene 64					
0	Up/Down, Blind	Input X	1bit	C,T	1.008DPT_up/down					
This ol Telegr 1—mo	bject is used to move up, am: 0—move up the cur ve down the curtains/bli	'down the cu tains/blinds nds	rtain.							
1	Stop/Adjust, Blind	Input X	1bit	C,T	1.007DPT_Step					
This ol	bject is used to stop the	curtain movi	ng or adjust	ing the shutt	er angle.					
2	Disable	Input X	1bit	C,W	1.003DPT_enable					
<b>T</b> 1 ·		والمحالية والمراجعة	1. /							

This communication object is used to disable/enable input channel

Table 3.8 "Input X" communication object												
Number 4	Name	Object Function	Description	Group Address	Length	С	R	W	Т	U	Data Type	Priority
18	LED 1	LED 1			1 bit	С	-	W	-	4		Low
<b>■</b> ‡ 19	LED 2	LED 2			1 bit	С	-	W	-	-		Low
20	LED 3	LED 3			1 bit	С	44	w	20	÷.		Low
21	LED 4	LED 4			1 bit	С	-	W	-	-		Low
22	LED 5	LED 5			1 bit	С	20	w	-	Ξ.		Low
23	LED 6	LED 6			1 bit	С		W	-	<u>.</u>		Low

Fig.3.9 "LED" communication object

# 4.2. "LED" COMMUNICATION OBJECT DESCRIPTION

No.	Function	Name	Туре	Property	DPT
18	LED X	LED X	1bit	C,W	1.001DPT_Switch
This communication object is used to receive a type of 1bit / 1byte, for displaying the switch					

Fig. 4.0"LED" communication object description

