M/PTCI2P2R.1

KNX Tile Series Power Interface-With 2CH 10A Relay

M/PTCI2P3R.1

KNX Tile Series Power Interface-With 3CH 10A Relay

Hardware Version: A

Notes: The power interface works with the KNX Tile Display, etc.

Datasheet

Issued: September 30, 2020

File Edition: A



Figure 1. M/PTCI2P2R.1



Figure 2. M/PTCI2P3R.1

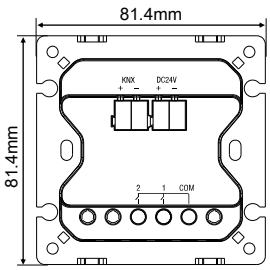


Figure 3. Dimensions - Back View

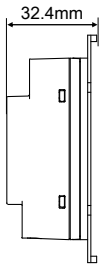


Figure 4. Dimensions - Side View

KNX Tile Series Power Interface-With 2CH 10A Relay

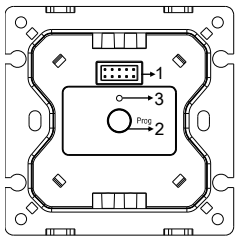


Figure 5. Components - Front View

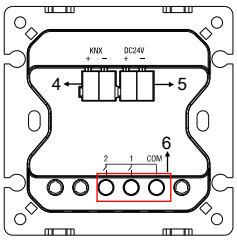


Figure 6. Components - Back View

KNX Tile Series Power Interface-With 2CH 10A Relay

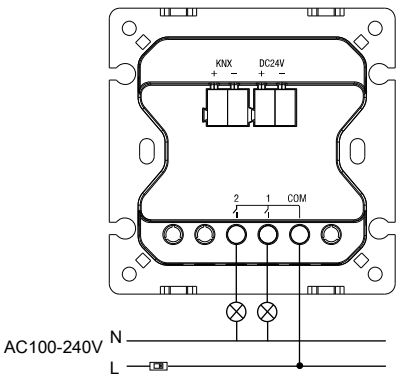


Figure 7. Wiring

Take the connection of KNX Tile Series Power Interface-With 2CH 10A Relay as an example

Overview

KNX Tile Series Power Interface-With 2CH 10A Relay (See Figure 1-2) works in conjunction with KNX Tile Display, etc. and provides working power and communication signals to the panel.

Its main functions include:

- With 2/3 10A relay channels
- With independent programming button and programming indicator
- Short press the button to enter the programming mode, long press the programming button to realize all relay channel on/off
- Provides power and communication signals for HDL Tile panel
- With scene control, staircase light control, delay control functions
- Relay usage time & frequency statistics
- Relay health check (voltage detection)

Components

Dimensions - See Figure 3 - 4

Components - See Figure 5 - 6

Wiring - See Figure 7

1. Communication interface: Provides working power and communication signals.

2. Programming button: Short press the button to enter the programming mode, the red indicator is always on in the programming mode; long press the programming button to realize all relay channels on/off.

3. Programming indicator

4. KNX Bus interface: voltage 21-30V DC

5. Auxiliary power input interface: voltage 20-30V DC

6. Connection terminal of relay channels

Installation

Installation - See Figure 8

Step 1. Mount the wall box (86 wall box with depth not less than 50mm) in the wall and draw the AC power cable and KNX Bus cable.

Step 2. Make correct wiring for AC power cable and KNX Bus cable.

Step 3. Fix the power interface in the wall box with screws.

Step 4. Install the panel cover on the power interface.

Step 5. Install the frame around the panel.

Note(s)

- The panel power interface should be installed in the wall box.
- The power interface should work in conjunction with panel (KNX Tile Display).
- Bus cable - KNX standard cable.
- To protect the device and loads, it is recommended to connect a 10A circuit breaker to each channel.

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be wall box mounted. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

KNX Tile Series Power Interface-With 2(3)CH 10A Relay*1 / Datasheet*1 / Long screw*2 / Short screw*2

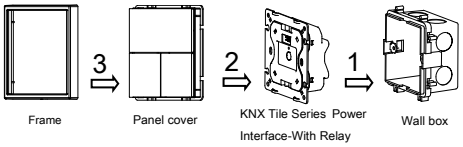


Figure 8. Installation

Technical Data

Basic Parameters	
Working voltage	21~30V DC
Working current	25mA/30V DC
Auxiliary voltage	20~30V DC
Auxiliary current	10mA/24V DC
Input voltage	AC100-240V (50/60Hz)
Output channel	M/PTCI2P2R.1: 2CH,10A/CH M/PTCI2P3R.1: 3CH,10A/CH
Communication	KNX
Cable diameter of KNX terminal	0.6-0.8mm
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	81.4×81.4×32.4 (mm)
Net weight	92g
Housing material	Iron, PC
Installation	Wall box (See Figure 8)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×

The symbol “-” indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

KNX Cable Guide

KNX	KNX Cable
-	Black
+	Red

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