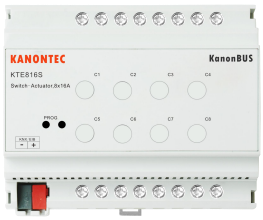
# 开关驱动器 4&8 路

## KTE404S, KTE410S, KTE416S
## KTE804S, KTE810S, KTE816S

操作说明书




订货号. KTE[O][L]S

[O] = 回路数量 (4 路或 8 路)

[L] = 最大电流值 (4A, 10A, 16A)

## 注意

RISK

All work carried out on the unit may only be performed by skilled electricians. Observe the regulations valid in the country of use, as well as the valid KNX guidelines

UTION

Do not connect the main voltage (230 V) or any other external voltage to any point of the BUS, except for the specific connections.

## 产品概述

开关驱动器通过 KNX 协议来实现继电器的开关控制。他们是 KanonBUS 系统的一部分。 驱动器获取面板的控制命令或者 KNX/EIB 系统所发送的控制命令来实现负载的开关动作

- 灯光
- 地暖控制
- 干接点信号控制

开关驱动器可以通过手动按钮来控制单个回路的开闭，并且通过指示灯来显示回路的开闭状态。也可以通过接受 KNX/EIB 系统所发出的命令来执行回路的开闭动作。

通过开关驱动器的参数来选择负载的类型和负载的功率。

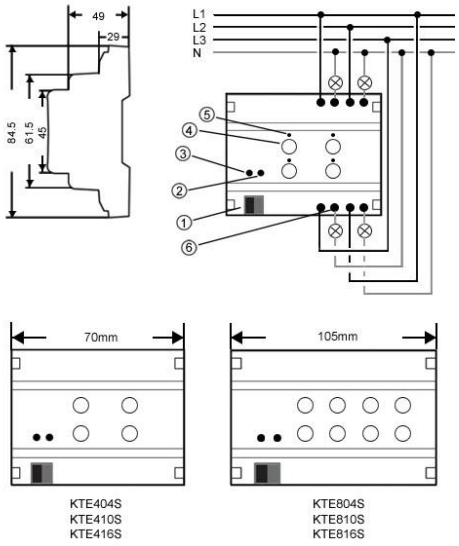
## 功能及特点

- 通过 KNX/EIB 协议实现 4 路或 8 路开关驱动器的单个回路的开闭动作。
- 手动控制单个回路的开闭。 并且回路的开闭状态与 KNX/EIB 系统上的状态反馈同步。
- 手动控制不需要其他的任何辅助工具，手动按就可以实现。
- 每个回路都有独立的状态显示。
- 每个回路都可以单独设置相关参数，( 常开触点或者常闭触点 )
- 场景记忆功能和学习功能
- 每个回路状态反馈到总线上
- 逻辑功能，时间功能，禁用功能。
- 最大 80A 冲击电流保护

**注意**

- 请注意根据回路类型选择合适的负载.
- 安装/施工调试请专业人士负责.
- 使用请参考安全低压 SELV 规则
- 请注意 220V 强电安全

## 模块说明




① 总线接线端子
② 编程按钮
③ 编程按钮指示灯
④ 手动控制按钮
⑤ 回路状态指示灯
⑥ 负载接线端子
每个回路 2 个接线端子

## 安装接线

① **安装:**
模块适用于标准 DIN-35mm 导轨安装(符合标准 DIN EN 60715)。可通过上部挂接在导轨上后往下轻轻扣在导轨上。

② **接线:**
开关模块接线方式为螺旋式螺丝来实现线路与模块之间的固定。设备的安装位置位于现场的配电箱内。KNX 元器件通过总线制的连接方式来实现设备之间的连线。

③ **调试方式:**
调试工具为专业工具 ETS 软件，详细的设备参数可以在 ETS 数据库中编辑。

④ **测试及诊断**
手动按住模块表面的上行或下行控制按钮可对对应回路进行手动控制。按下编程按钮可将模块设置为编程模式，再次按下编程按钮，取消编程模式

## 技术参数

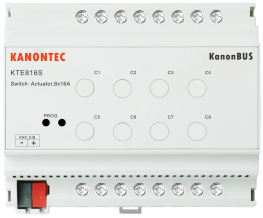
| | |
|---|---|
| 供电电源 | 21 ... 30V DC, made available by the bus |
| 功耗 | <12 mA |
| 输出通道 | 4 or 8 路 |
| 开关输出电流 | KTE404S: 4A/230V<br>KTE804S: 4A/230V<br><br>KTE410S: 10A/230V<br>KTE810S: 10A/230V<br><br>KTE416S: 16A/230V<br>KTE816S: 16A/230V<br>最大抗 65A 冲击电流 |
| 预期寿命 | 机械寿命:<br>> 5 x $10^6$<br><br>电器寿命:<br>> $10^5$ |
| 工作温度 | 0°C to +70°C |
| 存储温度 | -25 °C to +70°C |
| 标准类型 | IP20, EN60529 |
| 指示灯 | 输出指示灯<br><br>编程指示灯<br>分配物理地址 |
| 安装方式/尺寸 | DIN 导轨安装<br>8 路模块<br>105 X 90 X 60mm<br><br>4 路模块:<br>70 X 90 X 60mm |

**Switch actuator 4-, 8 fold**

**KTE404S, KTE410S, KTE416S**

**KTE804S, KTE810S, KTE816S**

Operating instructions



Art. No. KTE[O][L]S

[O] = output number (4 outputs or 8 outputs)

[L] = max. Load (4A, 10A, 16A)

## For your safety

⚠ RISK

All work carried out on the unit may only be performed by skilled electricians. Observe the regulations valid in the country of use, as well as the valid KNX guidelines

⚠ CAUTION

Do not connect the main voltage (230 V) or any other external voltage to any point of the BUS, except for the specific connections.

## Device description

The switching actuators are relays designed to interface BUS KNX/EIB with on/off electric loads. They are part of the KanonBUS installation system. The switching commands come from touch sensors or from binary inputs of the EIB/KNX system when controlling and switching loads, e.g.:

- Lighting
- Heating control
- Signaling equipment

The switch actuators can be manually operated via the manual button for each output without any further tools. And they are equipped with switching status indicators which are used at the same time for manual operation of the relays independent of the EIB/KNX system.

The switch product-versions are available according to the power and the type of connectable loads.

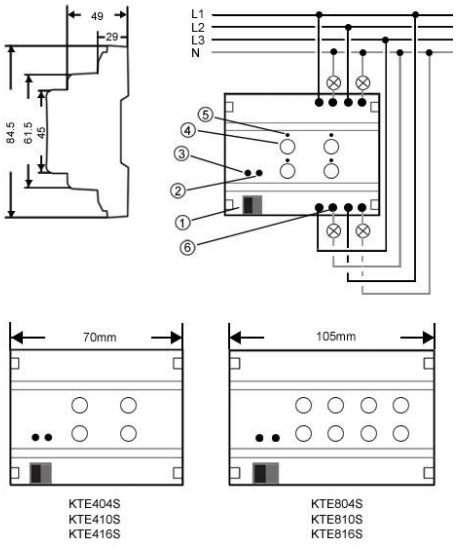
## MAIN FEATURES

- 4 or 8 independent channels controlled by bus EIB/KNX
- Manual operation of the relays is independent of bus conditions. If the bus is available the status for each channel is also synchronization with the bus communication.
- Manual operation needs without any further tools, just by hand.
- Status indicator for each channel
- The contact type of each channel can be parameterized(open contact means ON or opposite)
- Scene function with recall/learn
- Current status can be saved into the scene function
- Logic function, time function and disable function for each channel
- Max. 80A instantaneous starting current protected with 16A loads

**ℹ Note**

- Match the connected load to the correct operating mode for each output.
- The devices must be installed only by a qualified electrician.
- Conform to SELV installation rules

## Operating elements




⑦ BUS Connection terminal
⑧ Programming button
⑨ Programming LED
⑩ Manual operation button
⑪ Output status indication
⑫ Load current circuits
per circuit 2 connection terminals

## How to install the device

⑤ **Mounting:**
the device is suitable for installation in the connection unit or small enclosures for fast installation on 35mm mounting rails to DIN EN 60715.

⑥ **Connection:**
the electrical connection is implemented using screw terminals. The connection to the KNX is implemented using the supplied BUS Connection Terminal.

⑦ **Commissioning:**
The assignment of the physical address and the setting of the parameters are performed with the ETS (Engineering Tool Software).

⑧ **Test & Diagnosing:**
manual operation means forced manual operation. That means it needs not the separated auto/manual changeover. The manual button is pressed anytime, and then the matched output can be executed. And it can also transmit the status to the BUS in order to make the synchronization.

## Technical Data

| | |
|---|---|
| Power supply | 21…30V DC, made available by the bus |
| Power consumption | <12 mA |
| Output channels | 4 or 8 outputs |
| Output switching currents | KTE404S: 4A/230V<br>KTE804S: 4A/230V<br><br>KTE410S: 10A/230V<br>KTE810S: 10A/230V<br><br>KTE416S: 16A/230V<br>KTE816S: 16A/230V<br>Max. 65A starting current protected |
| Output life expectancy | Mechanical endurance:<br>$> 5 \times 10^6$<br><br>Electrical endurance:<br>$> 10^5$ |
| Ambient temperature | 0ºC to +70ºC |
| Storage temperature | -25 ºC to +70ºC |
| Type of protection | IP20, EN60529 |
| Indicator | Output indications<br><br>Prog. LED<br>For assignment of the physical address |
| Install/Dimensions | DIN-rail mounting<br>For 8 outputs:<br>105 X 90 X 60mm<br><br>For 4 outputs:<br>70 X 90 X 60mm |