**KNX Security DC Driver by Adeo Group Srl (www.adeogroup.it)**

for the HW purchasing please contact info@adeogroup.it

**Made in Italy. Driver development by Domotica Labs for Adeo Group Srl**

Version 1.1 – 2020-07-11

**[English]**

*This driver controls a security system through KNX communication.*

*A valid license and the Driver Central Cloud Driver are required.*

OVERVIEW

### GENERAL CONCEPTS

Each instance of the driver handles a partition of a security system; a partition is a set of zones that can be armed or disarmed together.

The partition can be associated to a room in the Control4 supervision, in order to let the final user to manage it in the SECURITY section.

In order to manage multiple partitions, simply drop multiple instances of the driver in different rooms, and bind each of them with the corresponding room.

Immagine che contiene screenshot

Descrizione generata automaticamente

### KNX COMMUNICATION

This driver make use of the standard KNX NETWORK Control4 driver in order to communicate with the KNX bus; it is suggested to insert the “KNX NETWORK” driver into the project prior to the one or multiple instances of the KNX SECURITY driver.

The Super Gateway itself can be used as physical IP interface; in such a case, enter its IP address in the KNX NETWORK driver.

Immagine che contiene screenshot

Descrizione generata automaticamente

In the eventuality of an installation without a physical KNX bus (being the KNX the “intermediate language” between a security system natively supported by the Super Gateway, and the Control4 controller), the Super Gateway must be set to “KNXNet/IP” communication mode; please refer to the Super Gateway documentation for further details.

CONFIGURATION

### SECURITY PANEL - PROPERTIES

### By selecting the security panel, an overview of the partitions and zones is shown. The ZONES list is initially empty; when configured properly as shown later in this documentation, it reports the actual zones configuration, and offer some customization possibilities:

Immagine che contiene screenshot

Descrizione generata automaticamente

### SECURITY PANEL – ADVANCED PROPERTIES

### CLOUD SETTINGS

The driver requires a valid license and the Driver Central Cloud Driver to be installed, in order to work properly; the status of the driver can be viewed in the CLOUD SETTINGS section of the properties.

If a valid license is found, the other attributes can be set, as shown in the following example picture:

Immagine che contiene screenshot

Descrizione generata automaticamente

### ARM / DISARM SETTINGS

The KNX Security Driver supports 2 arming modes: AWAY and HOME. For each of them, the following settings are available:

|  |  |
| --- | --- |
| ARM CMD ADDRESS  DISARM CMD ADDRESS | Group address of type DPT1 (ON/OFF) to arm and disarm (respectively) the partition in the given HOME / AWAY mode.  If the same KNX address must be used to arm and disarm, enter it twice.  This address is expected to be written by the Control4 controller. |
| ARM CMD VALUE  DISARM CMD VALUE | The value to be sent to KNX to arm and disarm (respectively) the partition in the given HOME / AWAY mode |
| ARMING STATUS ADDRESS | Group address of type DPT1 (ON/OFF) where the arm status is reported by the security system / Super Gateway  This address is expected to be read from the KNX by the Control4 controller  1 = Arm  0 = Disarm |

### STATUS SETTINGS

The KNX Security Driver offers the following settings to monitor the security system state:

|  |  |
| --- | --- |
| READY - STATUS ADDRESS | Group address of type DPT1 (ON/OFF) stating the security system to be ready or not for arming.  When not ready, any arm command will be refused by the driver.  1 = Ready  0 = Not Ready  Note: if this address is not given, the security system will be considered as always ready for arming |
| ALARM – STATUS ADDRESS | Group address of type DPT1 (ON/OFF) stating an alarm status of the security partition.  1 = Alarm  0 = No alarm |
| DELAY EXIT – STATUS ADDRESS  DELAY ENTRY – STATUS ADDRESS | Group address of type DPT1 (ON/OFF) stating that the system has detected a delayed exit or delayed entry (respectively).  When such a condition is detected, a countdown is shown in supervision, with the timer specified above; during this countdown, the system can be disarmed by pushing the status icon and entering the valid PIN. |
| DELAY EXIT – ACTIVATION VALUE  DELAY ENTRY – ACTIVATION VALUE | The value to be monitored from KNX for both delayed exit and entry (respectively) in order to activate countdown.  Possible values:   * 0 (OFF) * 1 (ON) * \* (ANY)   In the ANY case, despite of the value received from KNX on the KNX address, the countdown is started. |
| DELAY EXIT – TIMER  DELAY ENTRY - TIMER | The timer (in seconds) for delayed exit and entry (respectively)  This duration is used for the countdown animation, and must match the one set in the security system. |

### ZONES SETTINGS

First of all, the number of zones associated to the partition, must be entered; the number can be between 1 and 32.

Once entered the number of zones, a list of couples of properties for each zone, is prompted:

|  |  |
| --- | --- |
| ZONE X | Group address of type DPT1 (ON/OFF) reporting the status of the corresponding zone  1 = Open  0 = Close |
| ZONE X LABEL | Label associated to the zone |

After any change on the zones structure of the driver, a REFRESH NAVIGATORS is recommended in order to sync the GUI.

### PARTITION - PROPERTIES

By selecting the partition associated to the driver, the following form can be seen in Composer Pro:

Immagine che contiene screenshot

Descrizione generata automaticamente

In the DEFAULT USER CODE field the PIN to be used to disarm the partition must be entered. The final user will be requested to enter it in order to disarm the alarm system; the corresponding disarm KNX group address will be sent by the Control4 controller only in case of matching with the number entered here.

### ROOM SELECTION

Each instance of the driver can be bound to a room by means of its room selection connector. The following picture shows a typical configuration, where the security panel has been associated to a room:

Immagine che contiene screenshot

Descrizione generata automaticamente

The same driver / partition can be associated to multiple rooms; a single room, as opposite, can be associated to only one partition.

### CONNECTIONS

The KNX Security Driver offers the following connections:

Immagine che contiene posando, stanza

Descrizione generata automaticamente

Bind one or more of these connections to other drivers, in order to react to the corresponding security system status change:

|  |  |
| --- | --- |
| INSERT STATUS (AWAY)  INSERT STATUS (HOME) | Arming status of the security system in AWAY and HOME mode respectively  1 = ARMED  0 = DISARMED |
| READY STATUS | Ready status of the system  1 = READY  0 = NOT READY |
| DELAY EXIT STATUS  DELAY ENTRY STATUS | Delayed exit or entry (respectively) countdown in progress  1 = countdown in progress  0 = not in delayed entry/exit state |
| ALARM STATUS | Alarm condition in progress for the security system  1 = ALARM  0 = NO ALARM |

VISUALIZATION

### ROOM SELECTION

By entering a room to which a partition is associated, select the SECURITY section and the security panel symbol:

Immagine che contiene monitor, elettronico, schermo, sedendo

Descrizione generata automaticamente

### ARM / DISARM

Once entered the security panel, the main round element shows the status of the system, with a combination of colors and symbols:

Immagine che contiene monitor, nero, schermo, tenendo

Descrizione generata automaticamente

The system can be in one of the following conditions:

|  |  |
| --- | --- |
| Immagine che contiene monitor, nero, schermo, tenendo  Descrizione generata automaticamente | IDLE  Can be armed by pressing on the gren indicator |
| Immagine che contiene monitor, nero, schermo, computer  Descrizione generata automaticamente | ARMED  The system is active and can be disarmed by pressing on the RED indicator  A numeric PIN is requested to validate the disarm command |
| Immagine che contiene monitor, nero, schermo, computer  Descrizione generata automaticamente | ALARM  An alarm has been detected when the system was armed  By pressing on the red item, and entering a valid PIN, the system is disarmed |

### HISTORY

The HISTORY section shows a list of events occurred on the system; arm, disarm and alarm status changes are tracked and reported here.

Immagine che contiene screenshot, monitor, nero, schermo

Descrizione generata automaticamente

### ZONES

The ZONES section shows the list of zones associated to the partition, each one of them with the actual open/close state.

Immagine che contiene monitor, screenshot, nero, schermo

Descrizione generata automaticamente

Adeo Group Srl

Via della Zarga, 50

38015 LAVIS (TN)

Italy

P.IVA 01262500224

Tel: +39 0461 248211

Mail: info@adeogroup.it

Web Site: www.adeogroup.it

© 2020 Domotica Labs S.r.l.