# HDL®

**M/TM04.1**
KNX Master/Slave Timer Controller
Hardware Version : A

**KNX®**

**Datasheet**
Issued: June 26, 2019
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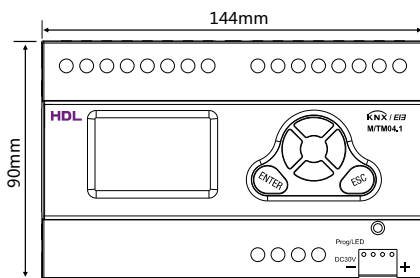Figure 1. KNX Master/Slave Timer Controller
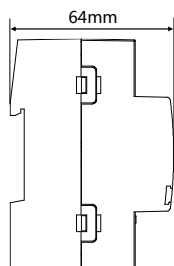

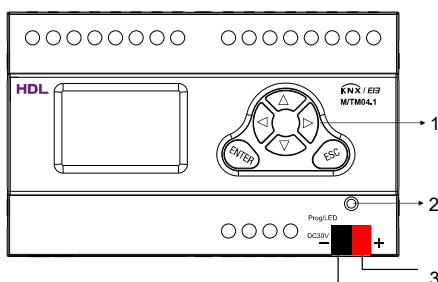Figure 2. Dimensions - Front View


Figure 3. Dimensions - Side View


Figure 4. Wiring

## Overview

With 4 independent channels and real-time clock, KNX Master/Slave Timer Controller (See Figure 1) is capable of running standard time as the master clock or slave clock. The master clock sends the clock information cyclically to KNX/EIB bus to control the schedule, while the slave clock achieves synchronization after receiving the master clock information and also realizes the control of schedule.

## Functions

■ Multiple routine modes: Year routine, Month routine, Week routine, Day routine, Special day

■ Control target types: Switching control, Alarm control, Curtain control, Scene control, Sequence control, Percentage control, Threshold control

■ Scene recall function

■ Working modes: Master /slave mode

## Important Notes

■ Installation - Distribution board.

■ Programming - The device is compliant with the KNX Standard and the parameters are set via the Engineering Tool Software (ETS).

■ The KNX bus voltage is 21-30V DC.

## Product Information

### Dimensions - See Figure 2 - 3
### Wiring - See Figure 4

1. Control button

   【ENTER】 Confirm button

   【ESC】 Esc button

   【△】 Page up, used for manual modification, value increases when pushing button

   【▽】 Page down, used for manual modification, value decreases when pushing button

   【<】 Left Move, used for selecting items and cursor location

   【>】 Right Move, used for selecting items and cursor location

2. Programming button & indicator

3. KNX/EIB Bus connector

### Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of KNX Master/Slave Timer Controller on the edge of the DIN rail.

Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

## 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 installed with DIN rail in DB box. 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.

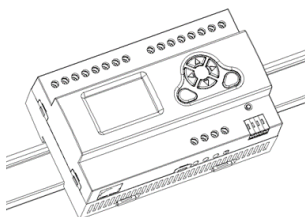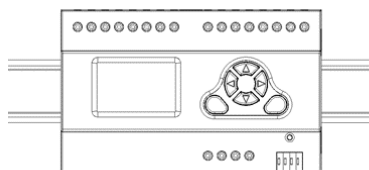## Package Contents

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Figure 5


Figure 6


Figure 7

Figure 5 – 7. Installation

## Technical Data

### Basic Parameters

| | |
|---|---|
| Working voltage | 21~30V DC |
| Working current | 10mA/30V DC |
| 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 | 144mm×90mm×64mm |
| Net weight | 240g |
| Housing material | Nylon |
| Installation | 35mm DIN rail installation (See Figure 5 - 7) |
| 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 |