M/AG40B.1

KNX Blinds Motor 220V AC

Hardware Version: A

Datasheet

Issued: July 25, 2019

Edition: V1.0.0

Figure 1. Blinds Motor

Figure 2. Communication Module

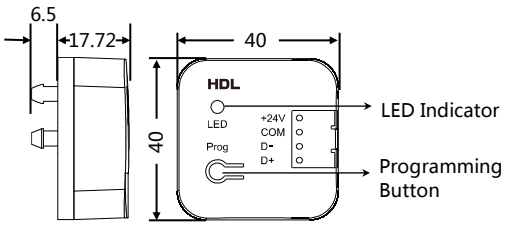

Figure 3. Dimensions - Communication Module (Unit: mm)

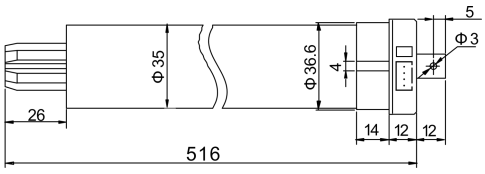

Figure 4. Dimensions - Motor (inner tube) Side View (Unit: mm)

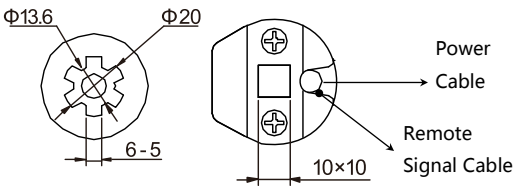

Figure 5. Dimensions - Motor (inner tube) Bottom View (Unit: mm)

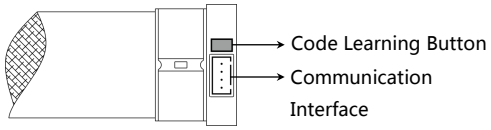

Figure 6. Motor (inner tube) Structure

Overview

KNX Blinds Motor 220V AC (Figure 1 & 2) controls the roller blind travel up/down, travel up/down to a specified percentage position by receiving a KNX signal.

Its features include:

- Automatic travel measurement and supports limit point presetting
- Enable to control the curtain travel up/down, stop and percentage up/down, and supports status response (travel up/down, stop, percentage up/down, etc.)
- Enable short drag to start the motor
- The rotate direction of the motor can be set to forward or reverse.
- Preset position function, a total of 4 preset positions available
- Safety control: Control the curtain position according to wind, rain, frost signal, and supports the power-on status recovery after power failure.
- Auto control: Control the curtain position according to the weather status, heating, cooling signal
- Scene control function
- Forced position operation
- Power-down save function
- Overheat protection

Components and Operation

Dimensions - Figure 3 - 5

Components - Figure 3 & 6

Programming button / LED indicator (Communication module):

Press the button, the indicator keeps on red, then the motor enters programming mode.

Code learning button (Motor): for learning remote control code. For detailed information, please refer to the user manual of remote controller.

Communication connector (Motor) : for connecting with KNX module, and being configured via ETS.

Installation

1. Install the mounting bracket to the blinds motor.
2. Install the communication module to the Mounting bracket.
3. Fix the blinds motor with mounting bracket on the wall with screws.

Note(s)

- Programming - This motor is compliant with the KNX standard and only can be configured via ETS software.
- Do NOT add lubricant to the motor.
- Please keep secure of the components, do not crash or drop any part.

Warning

- 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.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this specification.
- 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.
- Do not put any additional weight on the curtain, nor climb the curtain.

Package Contents

Blinds motor*1 / Communication module*1 / Mounting bracket*1 / Datasheet*1

Technical Data

Basic Parameters	
Working voltage	21-30V DC
Working current	6mA/30V DC
Communication	KNX
Rated input voltage	AC220-240V (50Hz)
Rated input current	0.9A
Cable diameter of KNX terminal	0.6-0.8mm
Motor rotate torque	3N.m
Motor rotate speed	22rpm
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	φ35×528(mm) (See Figure 3-Figure 5)
Net weight	1224g (Motor) + 20g (Communication module)
Housing material	Steel (Motor) + retardant-frame PC (Communication module)
Installation	Wall hanging
Insulation rating	E
Work system	S2-3min
Protection rating (Compliant with EN 60529)	IP44

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

Technical support
E-mail: support@hdlautomation.com
Website: https://www.hdlautomation.com