KNX gate drive interface
HMN-F0100-1



The KNX interface for the HMN-F0100-1 gate drive is designed to control garage door drives as part of a Smart Home system based on KNX technology, and, with the help of additional sensors, to monitor the concentration of flammable and toxic gases in the air of the garage.

Technical specifications

Parameters	
Powering the device	From the gate drive
Operating temperature range	from -5 to + 45°C
Humidity during operation	from 5 to 95% (non-condensing)
Degree of protection of the case	IP 20, in a clean environment
Installation type	on a DIN rail (EN 50022), on a wall, on a ceiling
Size	60x54x31mm
Weight	80 g
KNX interface	
Specification	TP-256
Configuration program	ETS 5.7 and higher
Connection	standard connector (WAGO 234–211)
Power consumption via KNX bus (29V DC)	< = 10 mA

Equipment

- Device HMN-F0100-1
- Passport
- Terminal for connecting the power break relay
- 1m long cable for connection to the drive
- DIN rail for installation in close proximity to the drive

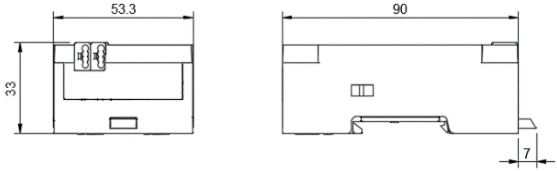
Attention!

Before connecting the gateway to the drive, make sure that the drive type side switch is in the correct position; connecting a drive that does not match the switch position may damage Device :

Series 3 – for drive models:

- SupraMatic 3 (drive must be produced after 2014 (starting with "C" and further (D, E, F...) at the end of the serial number))
- RollMatic
- RotaMatic /P /PL
- VersaMatic /P
- LineaMatic /P
- WA 300 R S4 / WA 300 S4

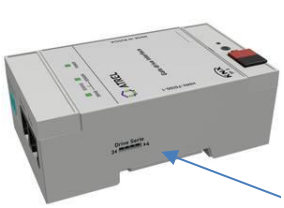
Pic 1



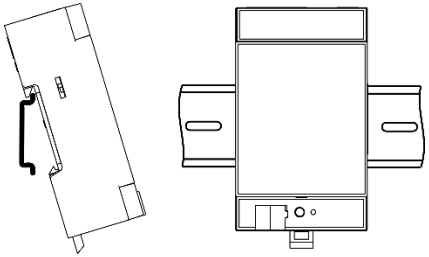
Series 4 – for drive models :

- ProMatic 4
- SupraMatic 4
- Liftronic 700–2 / 800–2
- WA 500 / ITO 500 / 560

Pic 2



Switch "3/4 Series Drive"



Installation

The device is mounted on a standard 35mm rail in an electrical panel or on the ceiling next to the drive. Connection to the common bus is provided via a standard KNX connector . Connection to the drive is made using a 6-wire cable with two RJ- 12 connectors, connected to a dedicated drive connector (BUS). To address the issue with Series 4 drives, where they lose connection with controllers even during short-term communication interruptions (which will occur when loading the application), it is recommended to also add a relay built into the device (terminal included) in the power supply wire. Otherwise, a cold restart may be necessary after each change to the ETS application. Next, configure the drive and enable it to operate with devices on the BUS according to the drive manual. Examples of setting up certain types of drives are provided below:

SupraMatic 3: Set the " **Serie**" switch to position "**3**". Accessories are searched for and connected each time the drive is powered on.
ProMatic 4: Set the " **Serie**" switch to position "**4 " Use** DIP switch H (8, outermost) under the drive's rear cover. Devices on the bus are searched for by toggling the switch to the ON position , then immediately to the OFF position . The search continues for 20 seconds (drive indicator flashes red and green).
SupraMatic 4: Set the " **Serie**" switch to position "**4**" Using the control buttons on the drive panel, enter drive setup menu #37, then select item 01. The drive will scan the bus, after which it can be controlled using the device.

Connecting gas sensors

To monitor the level of flammable or hazardous gases in the garage, one or two gas sensors can be connected to the Device : NO2 , CO (exhaust gas monitoring), C3H8 (propane), CH4 (methane) (combustible gas monitoring). CO2 . The device has a dedicated 4 - pin RJ9 bus connector for this purpose . Gas sensors must be configured in ETS , after which they can be connected to the device. Hot plugging and unplugging is allowed. The device regularly rechecks for sensors on the bus and starts using them as soon as they are detected. The sensors are powered by the gate drive, so they will only function when connected.

Maintenance

Maintenance must be performed by qualified personnel. Before performing maintenance, carefully read this document. To maintain proper operation during operation, scheduled maintenance is required. Scheduled maintenance includes a periodic (at least once every six months) visual inspection, dust removal, and checking the product's functionality and electrical connections.

Warranty obligations

The warranty period is set for 3 years from the date of sale. If the date of sale is not specified, the warranty period is calculated from the date of manufacture. The service life is 10 years from the date of commissioning or the date of sale. If the date of sale or commissioning is not specified, the service life is calculated from the date of manufacture. The manufacturer guarantees compliance with the declared parameters, provided the consumer observes the operating conditions. The seller's marks in the operating manual, as well as the presence of the operating manual itself, the passport, and the original packaging, are not mandatory and do not affect the fulfillment of warranty obligations. The manufacturer is not responsible and will not compensate for defects caused by the consumer due to non-compliance with the operating and installation rules. If there is external damage to the housing or signs of tampering with the structure, warranty service will not be provided. Warranty service is provided by the manufacturer.

Setup and operation instructions are available on the manufacturer's website at: https://atrel.ru/e4

Serial number: 0241: 12 00 ___ ___ ___ ___

Date of sale: ____ _____ _____

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