



OPEN.ioting smart gate opener

SAFETY INSTRUCTIONS

Specifications:

- Size: **112,5x84,5x36,5mm ±0,5**
- Weight without connectors: **150g**
- Power input: **85VAC – 265VAC / 47 – 63Hz**
- Standby power consumption: **<0,3W**
- Maximum power consumption: **5W**
- Energy efficiency: **>68%**
- Contact protection class: **II.**
- Protection: **IP 50**
- Working temperature: **-40°C...+85°C**
- Max storage ambient humidity: **5%-95% RH**
- Permitted ambient temperature during operation: **-25°C...+50 °C**
- Maximum operating ambient humidity: **5%-90% RH** (without condensation)
- Maximum altitude (during operation): **2000m**
- Overload protection with automatic reset
- Primary short-circuit protection: **F0,5A/250V fuse**
- Secondary short-circuit protection: **polyfuse with automatic reset**

Digital input					
	<i>Number of inputs</i>	<i>Input voltage (V)</i>	<i>Frequency max. (HZ)</i>	<i>Input impedance @1kHz (Ω)</i>	<i>Input current consumption</i>
Optocoupler	3	-0,4...5,5	100	>470k/160pF	-20mA
LAN	1	PoE	10/100M	<30pF@1MHz	IEEE802.3at

Input overvoltage protection					
	<i>On state (V)</i>	<i>Off state (V)</i>	<i>Peak current (A) (8/20μs)</i>	<i>Transient energy (J) (10x1000 μs)</i>	<i>Frequency</i>
Optocoupler	41	41	1A	0,1 J	1MHz

Supply voltage (VIN)

	DC (V)	AC (V)	Frequency (Hz)	Max. current consumption (A)	Typical current consumption. (A)
VIN	120 - 370	85 - 265	47 - 63	0,2	0,2
Standby power consumption	0,3W				
Maximum power consumption	5W				
Energy efficiency	>68%				

Reliability requirement

Calculated according to MIL-HDBK-217-F2 550 000h @230VAC, 25°C in relation to the power supply

Overvoltage protection (VIN_OVP)

VIN_OV	369VDC	275VAC	AC/DC	2,5kA (8x20µs)	45J
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Analog/Digital output

	Number of outputs	Output voltage (V)	Frequency max. (HZ)	Output impedance @1kHz (Ω)	Output current (A)
Relé (túláramvédelem nélkül)	2 (NC/NO)	125VAC	DC-60	<0,1	2A(cosφ1)

Output overvoltage protection

	On state (V)	Off state (V)	Frequency max. (HZ)	Output impedance @1kHz (Ω)	Output current (A)
Relay (COM-NC/NO)	None	None	DC-10kHz	< 0,1	2

WiFi (2,4GHz)

Protocol	802.11 b/g/n	802.11n up to 150 Mbps
Frequency	2,4 – 2,5 GHz	
Sensitivity (Rx)	-97 dBm	
Output power (Tx)	15 dBm	PA 72,2 Mbps
	20,5 dBm	PA 11b mode

BLE (v4.2)

Sensitivity @30,8% PER (Rx)	-97 dBm
RF output power (Tx)	0 dBm
RF power control range	-12 ...+12dBm

Physical dimensions

Width	84,5mm	±0,5
Length	112,5mm	±0,5
Height	36,5mm	±0,5
Weight	150g	
Operating temperature	-20 55°C	RH 5-95%
Storage temperature	-40 70°C	RH-5-90%
Maximum operating altitude above sea level	2000m	
Protection class	IP50	
Connectable wires	0,2-2,5 mm ² (24-12 AWG)	
Connector Tightening Torque	0,2Nm (7 ib-inch)	

Relevant standards and legislation:

Suitable for indoor use.

IP50

IPC-A-610D

RoHS (RoHS-2011/65/EU)

ISO 9001:2015

EN 60670-1:2005

Boxes and covers for electrical assemblies, household and similar fixed electrical installations.

EN 60947-4-3:2014

EN 61439-1:2011

Low-voltage switchgear and control equipment.

EN 60730-1:2011

1999/5/EK CE-jelölés

EN 55011:2016+A1:2017+A11:2020

Group 1 Class B Radiated RF emission test

EN 55035:2017

$\pm 8\text{kV}$ air, $\pm 4\text{kV}$ contact Immunity test against ESD

EN 55035:2017,

3 V/m 0.08-6 GHz Modulation: sinus 1kHz, 80% AM Immunity test, Radiated RF disturbances

EN 62368-1:2014+A11:2017

MSZ EN 50130-4:2011

2014/53/EU (RED)

EN 62233:2008/AC:2008)

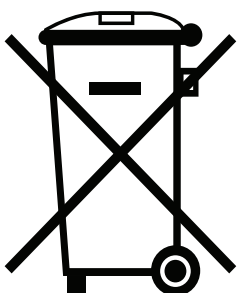
For your safety, please read carefully and follow the instructions below! Failure to observe safety instructions may be a threat to you and your environment!

TELL's product (hereinafter referred to as „device“) has a built-in WiFi interface.

The device uses the following WiFi frequency band:

2.4 GHz, 802.11 b/g/n

- **DO NOT USE** the device in an environment where radio frequency radiation can cause a risk and may interfere with other devices that may cause undesired operation - such as medical devices!
- **DO NOT USE** the device if there is a risk of high humidity, hazardous chemicals, or other physical impact!
- **DO NOT USE** the device beyond the specified operating temperature range!
- **DO NOT MOUNT** the device in a hazardous environment!
- **DO NOT INSTALL/WIRE** the device under voltage. For easy disconnection, the device's power supply or the device used to cut the power feed (e.g., mains socket and plug) should be easily accessible!
- **ALWAYS DISCONNECT** the power feed before starting to mount the device!
- **TO SWITCH OFF** the device, disconnect the power source.
- **DO NOT ATTEMPT** to repair the device. Only qualified personnel is allowed to repair the device!
- **PROVIDE APPROPRIATE POWER SOURCE** for the device. The device operates safely and properly only with a power supply which meets the requirements specified in the Quick Guide. You can find the exact data in the Quick Guide and on the <https://www.openioting.com> website as well.
- **DO NOT USE** the device with a power supply that does not meet the MSZ EN 60950-21:2003 standard!
- **DO NOT REVERSE THE POLARITY** of the power supply! Wire the power supply always according to the polarity indicated on the device!



E-WASTE DISPOSAL INSTRUCTIONS 2012/19/ EU According to the European Waste Management Directive (HAK), the symbol on the product or its packaging indicates that the product is not considered household waste. In accordance with the directive, the device must be disposed of at the selective collection point for electrical and electronic waste. Ensuring the proper disposal of the product helps prevent potential negative consequences for the environment and human health that improper waste management may cause. For additional information on recycling the product, please contact local authorities or your household waste management and disposal service.

The product contains components subject to the European Directive 2006/66/EC, prohibiting disposal with municipal waste. Please check local regulations for separate collection of these components. Proper disposal of these elements helps prevent potential negative consequences for the environment and human health.

Declaration of conformity

Manufacturer: TELL

T.E.L.L. Software Hungaria Kft. Hungary, 4034. Debrecen, Vágóhíd str. 2.

The product complies with the following European directives:

- MSZ EN 55032:2015+A11:2020
- EN 55011:2016+A1:2017+A11:2020 Group 1 Class B
- 2014/53/EU (RED), EN62233:2008/AC:2008,
- EN 55035:2017, 2015/863/EU RoHS3
- EN ISO 9001:2015, IPC-A-610D
- B-23-162-TAN



CLASS-II



CE-1413 B-23-162-TAN

