

TELID® 760.pos

BLE Position Sensor and Identification Beacon

- unique identification number
- designed for position measurements,
e.g. for process or infrastructure monitoring
- Bluetooth Low Energy data communication
- lifetime up to 5 years due to built-in high performance Li battery

TELID® 700 extends the proven range of passive sensors and sensor data loggers with wireless RFID interface by a Bluetooth Low Energy communication interface.

TELID® 700 devices are useful for long range identification or sensing demands. The product can be attached to metal or non-metal surfaces and is even useable under water.



TEL +49-361-59874 0
E-MAIL info@microsensys.de
WEB www.microsensys.de

This data sheet is subject to change. Please contact microsensys for latest technical information. Picture may differ from original product.

TELID760.POS-002.DOCX

Contactless Interface:	BLE TELID® 7	long range identification and sensor system TELID® 700
RF Communication:		Bluetooth Low Energy 5.2
Carrier Frequency:		2.4 GHz
Communication Distance:	0 ... 10 m, depending on gateway type and environmental conditions	
Environmental Conditions:	IP40	
Working Temperature in Air:		-25 °C ... +60 °C
Storage Temperature:		-40 °C ... +85 °C, recommended 25 °C
Sensors:	resistive position sensor	
Working Range:		approx.. 25 mm
Linearity:		see page 2
Lifetime:		1M full cycle, 5M part cycle
Resolution:		see page 2
Data Memory:	EEPROM	non-volatile memory, write endurance >10 ⁶ cycles
Standard Content:		unique TELID identification number, parameter and calibration data
Remarks:		programmable by TELID® 700 configuration tool*
Security features:	Write Protection:	partial read-only protection*
	Data Encoding:	128-bit hash encoding*
	Originality:	ECC-based programmable originality signature*
Operation:	SLEEP, RUN, MEASURE	
Basic functions:		PROGRAM*, BROADCAST*, CONNECT*
Sampling rate:		15 sec ... 900 sec, programmed on delivery
Broadcast period:		> 1 sec, depending on connection period
Housing:	Q7070PM	hermetically sealed, using on metal possible
Dimension:		70 mm x 70mm, thickness 16 mm
Material:		PA6
Protection Class:		IP40
Mounting Instruction:		see application note
Energy Source:	Li primary cell	
Battery:		CR2450, replaceable by service
Lifetime:		1 ... 5 years, depending on usage
Operation Devices:	Smart Phone or BLE Gateway with TELID®7 software	
Appropriate Gateway:	iID® IND0906 BLE, iID® gateway Ezurio MG-100, BLE 5.2 enabled smartphone	
Configuration Software:	TELID® 700 configuration tool (Android)*	
Operating Software:	OS: TELID® sens, TELID®700soft (Android),	
Device Interface:	TELID® 700 beacon protocol	driverless, based on iID® interface protocol V4

*) in development or on request

TELID® 760.pos

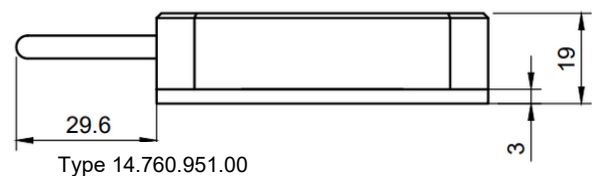
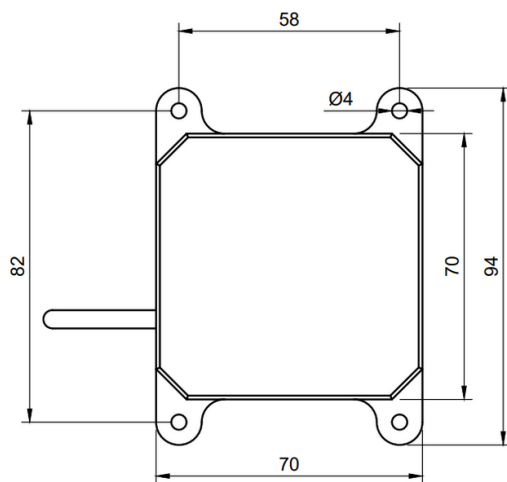
TELID® 760.pos is a battery powered position sensor beacon for unique object identification, position measurement supporting operation with smartphones and other iID® contactless components such as gateways.



Product Code:	14.760.951.00	14.760.952.00*	Unit
Measurement Range	25.4	30	mm
Linearity	+/-1		%
Resolution Distance	0.2	0.1	mm
Battery Capacity	Li primary cell, 550		mAh

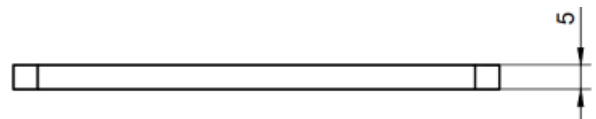
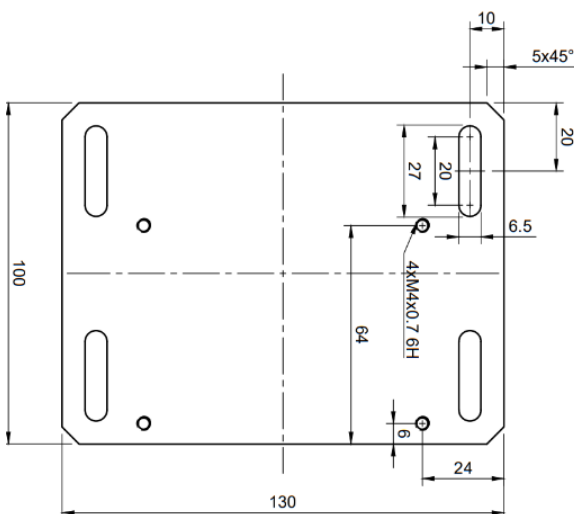
*) in development

Dimensions:



TELID® 760.pos Q7070PM housing, all dimensions in mm

Dimensions Mounting Plate (optional):



Mounting Plate for Q7070PM housing, all dimensions in mm