ScanGate®BLE-Sensors/Beacons
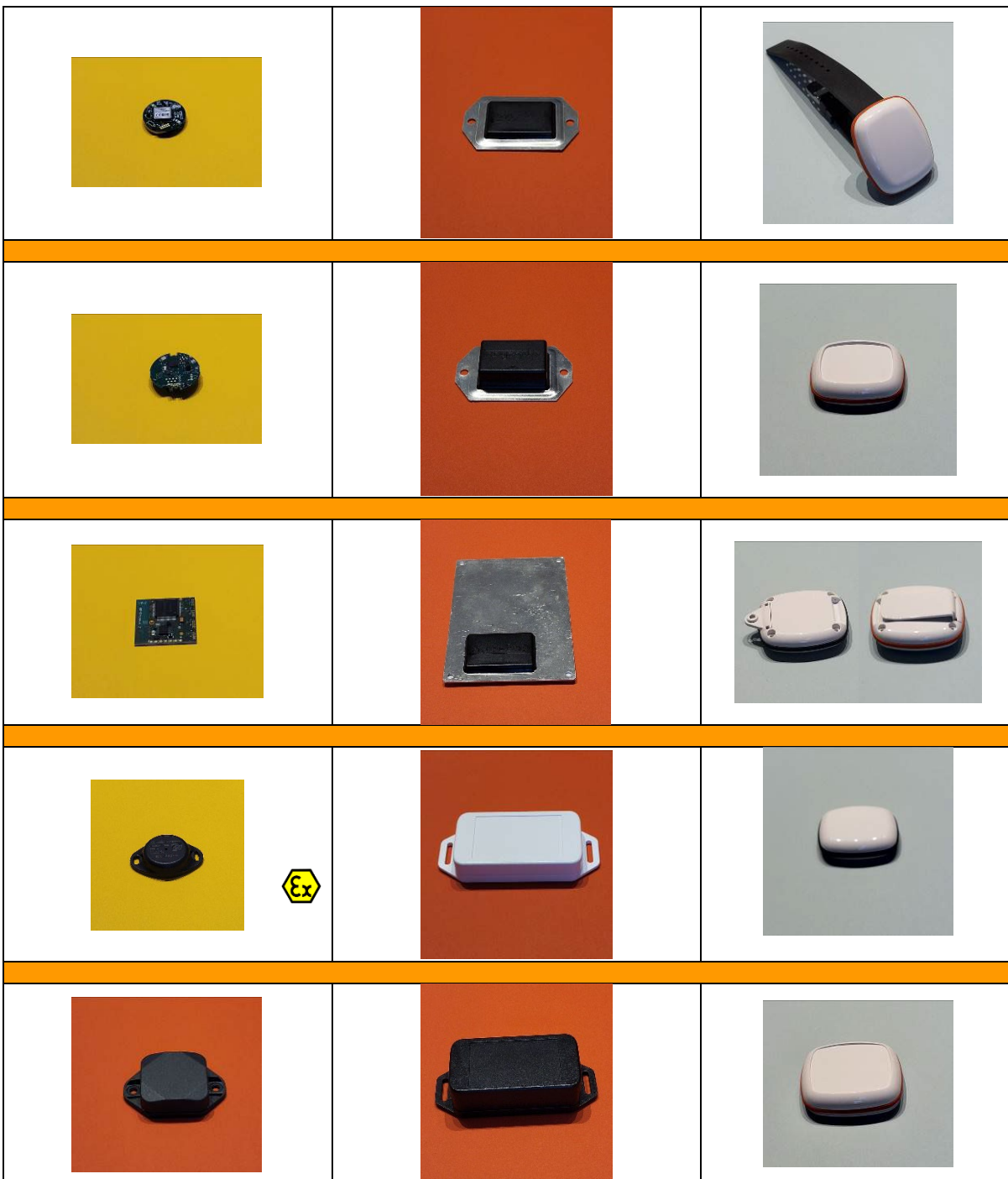## Position, Temperature, Movement, Magnetometer, Humidity, NFC

We make your assets visible with one click!

Why DATATRONIC:
- we produce BLE Sensors in <u>preferrable your housing</u>, in Europe, in small or middle size batches, this allows us high flexibility and implementing your requirements.

If you are not yet sure how your senso / beacon should look like, we suggest some standard housings:

Features and Benefits, Technical Data

☑ Available sensors
- o Integrated acceleration sensor, shock, movement
- o Integrated temperature sensor
- o Integrated light sensor (open cover detector)
- o Integrated magnetometer
- o humidity sensor

☑ NFC integrated RFID for easy detection for Mobile Phone APPs

☑ Fully qualified Bluetooth® 5.2 Low Energy

☑ Connection to smart phones, PDA's, PCs, tablets, mobile computers

☑ Certifications FCC, R&TTE, CE

☑ Ultra-low-power
- o Powered by coin cell or compact batteries:
- o Battery live depending on TX interval, (Interval 10 sec > 10 years)

☑ Very low-cost device.

☑ Operating temperature: - 25°C to +60°C

☑ Application specific housings for transponders, tags and key fobs.

☑ Laser marking or engraving, branding with customers logo

☑ Compact and ergo metric design, IP 69 available

☑ Made for outside operations, industrial areas, rough environment, on vehicles, …

☑ Options: Beeper, LED indicators for Power, Signal, Communication Control

☑ ATEX compliance on request

☑ Protocol support: iBeacon and Eddystone:
IDs: MAC address, Hardware ID;
iBeacon: UUID, Major, Minor;
Eddystone: Namespace / Instance

ScanGate®Sensors can be used for countless applications – starting with indoor localisation, logistics, data logging and smart phone accessories - the only limit is your imagination.
Operation hours counting is a typical application.
You will see your assets and their status on a click in the WEB portal or the mobile APP.
Internet of Things – in record time - in your pocket.

StartUp Kits, matched to your application, will be delivered quickly!

Worth to know about:

ScanGate® Sensors are active transponders that send data packets via BlueTooth Low Energy at adjustable time intervals.

The data packets are received via smart phones / mobile phones, or via GPS tracker or gateway

In addition to a unique identification number and MAC address, various sensor data are available as an option in the data package, such as temperature, movement, position, shock, and also humidity, light, CO_2, magnetometer, etc. etc.

In a data memory, for example, temperature or movement history, etc. can be temporarily stored and then transmitted to the receiving device during the next transmission cycle.

The transmission range is adjustable and ranges from a few meters to hundreds of meters.

The battery life depends:
- on the battery capacity, which is mostly given by the size of the battery and
- on the transmission interval, which is configurable e.g. every second or every 10 minutes or longer.

With soldered batteries, 25 years can be achieved. However, the battery can also be changed if the housing can be opened, the battery status is sent in the data package.

The geo-position of the ScanGate® BLE sensor is recorded via the GPS function of the smartphone or a GPS tracker or a gateway.

The sensor housings must be adapted to the application, especially to the environmental conditions. By miniaturizing the sensor electronics and selecting correspondingly small batteries, it is possible to produce even very small ScanGate®-BLE sensors.

These small electronics are sending its unique ID every 0,1 sec – 24 hour (adjustable).
They can be received within a radius of up to 300 m.

Worldwide unique ID, R/W memory, more than just a RFID transponder

We will send you more details and an offer tailored to your requirements.
The examination of feasibility is in the foreground.
In addition, we offer programming and printing of e.g.: logo and QR code.

DATATRONIC has been involved in AutoID and IoT technologies for more than 30 years.
It would a pleasure to share our knowledge and experience with you to our mutual benefit.

Please do not hesitate to contact us.

Mit freundlichen Grüßen
With best regards

datatronic.eu

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DATATRONIC Portfolio

www.DATATRONIC.eu
… Interested in identification of: people, animals, vehicles, machinery, tools, (mobile) assets?
Then you will find the necessary components, hardware, software, and examples:

www.SpritControl.com
… Authorized refueling with fully automatic recording:
Which vehicle was refueled when and where how many liters.

www.TagTrans.com
… How do I make to my smartphone, tablet or laptop:
- a perfect **RFID reader / writer and 2D bar code imager** (eg .: QR code)

www.ScanGate.eu
… "IOT Internet of Things" and transparency:
capture position, temperature, motion, shock and more and for interaction with eg: smart phones use (applications from production 4.0 to personal advertising)
Inspect the wide **range of transponders and smart labels**, many are MOM (Mount on Metal) or all surface tuned.
 Watch this short video to see how you should fix a MOM smart label ….
www.scangate.eu/download/Instructions_for_peeling_6024_TE_TP.mp4