



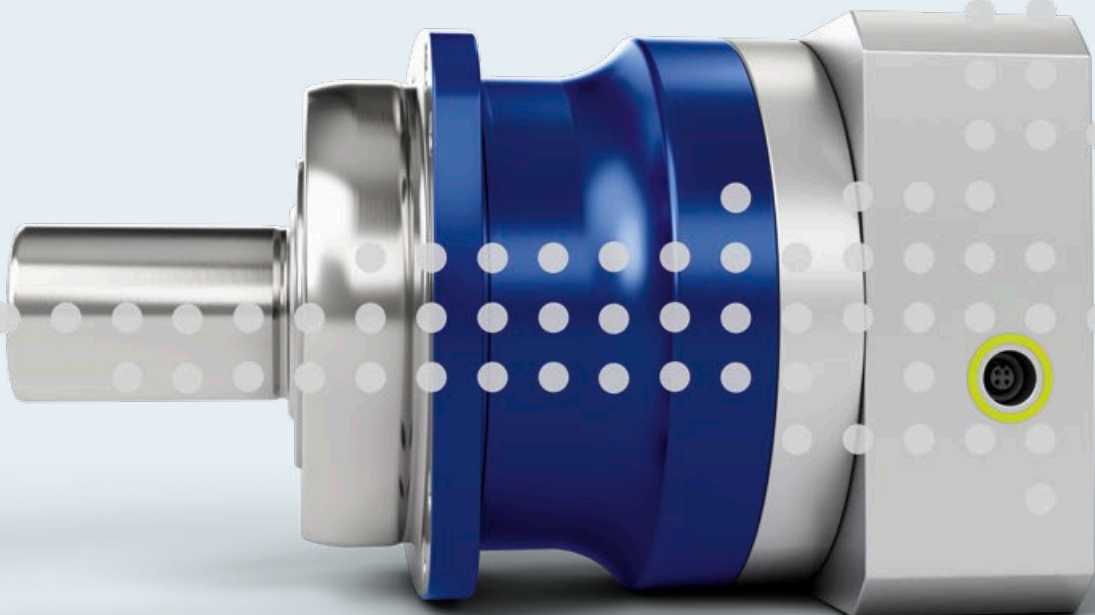
WITTENSTEIN

alpha

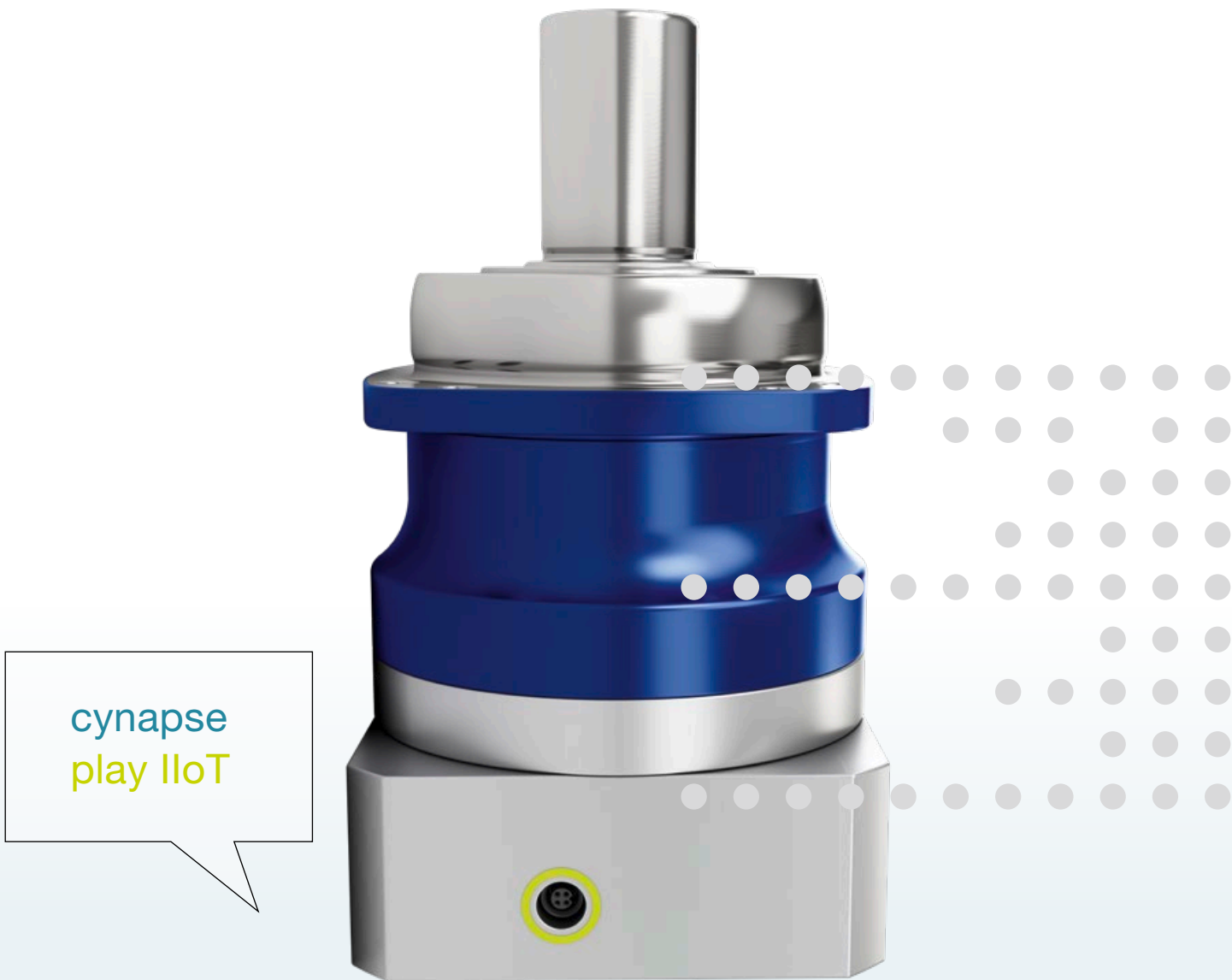
It's new.
It's connective.
The smart gearbox.

cynapse

Get started: play IIoT



Unlimited connectivity:



cynapse
play IIoT

Welcome to IIoT!

The Industrial Internet of Things (IIoT) is the global IT infrastructure of the future in industrial applications: by linking physical and virtual objects, you enable them to communicate interactively for you 24/7 and map process-relevant information. Using the virtual pool of knowledge which is created in this way, you can optimize processes effectively, reduce your manufacturing costs and make your operations generally more efficient. Play IIoT – cynapse is your connection to the digital world.

Your access to the digital world.

1 smart gearbox – 1,000 digital opportunities

cynapse



More transparency

More efficiency

More availability

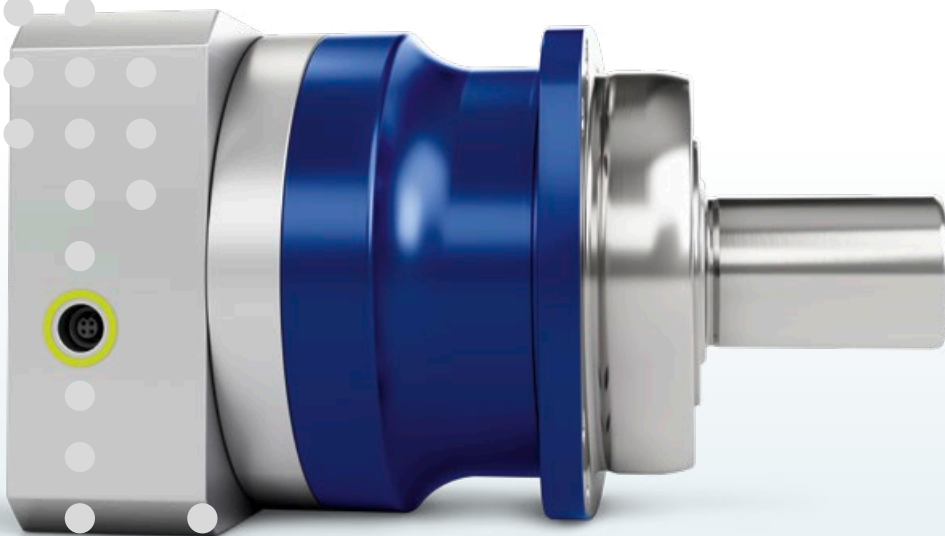
Discover now at www.wittenstein-alpha.com/cynapse



Smart, simple, fast: cynapse really works!

cynapse – How it works

cynapse provides a simple way to connect your gearbox to tomorrow's digital world. Using the connectivity of an IO-Link interface, a sensor module is integrated into the existing installation space. You then have access to measured variables such as **temperature, vibration, operating hours and acceleration as well as product-specific information** on the gearbox.



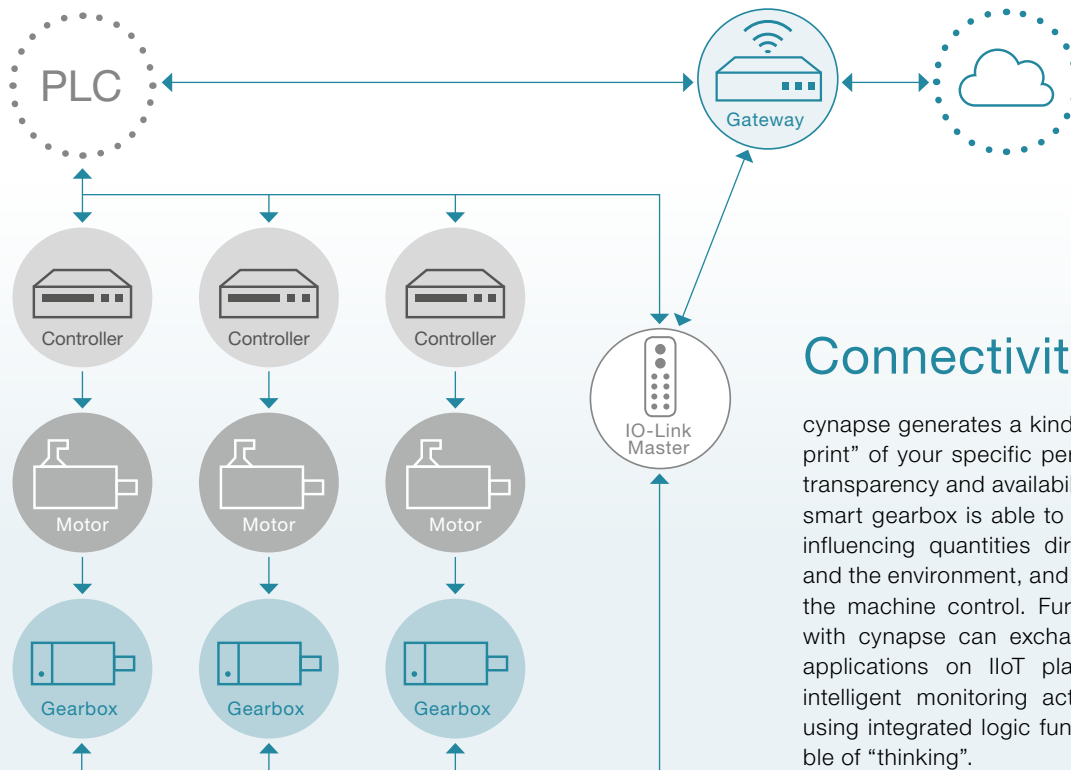
Get more out of your gearbox:

- ● Get more functionality from the same space.
- ● Know all you need to know about the condition of your gearbox.
- ● Gain access to information without having to mount any additional sensors externally.

cynapse “speaks” to any standard system

Integration without limits

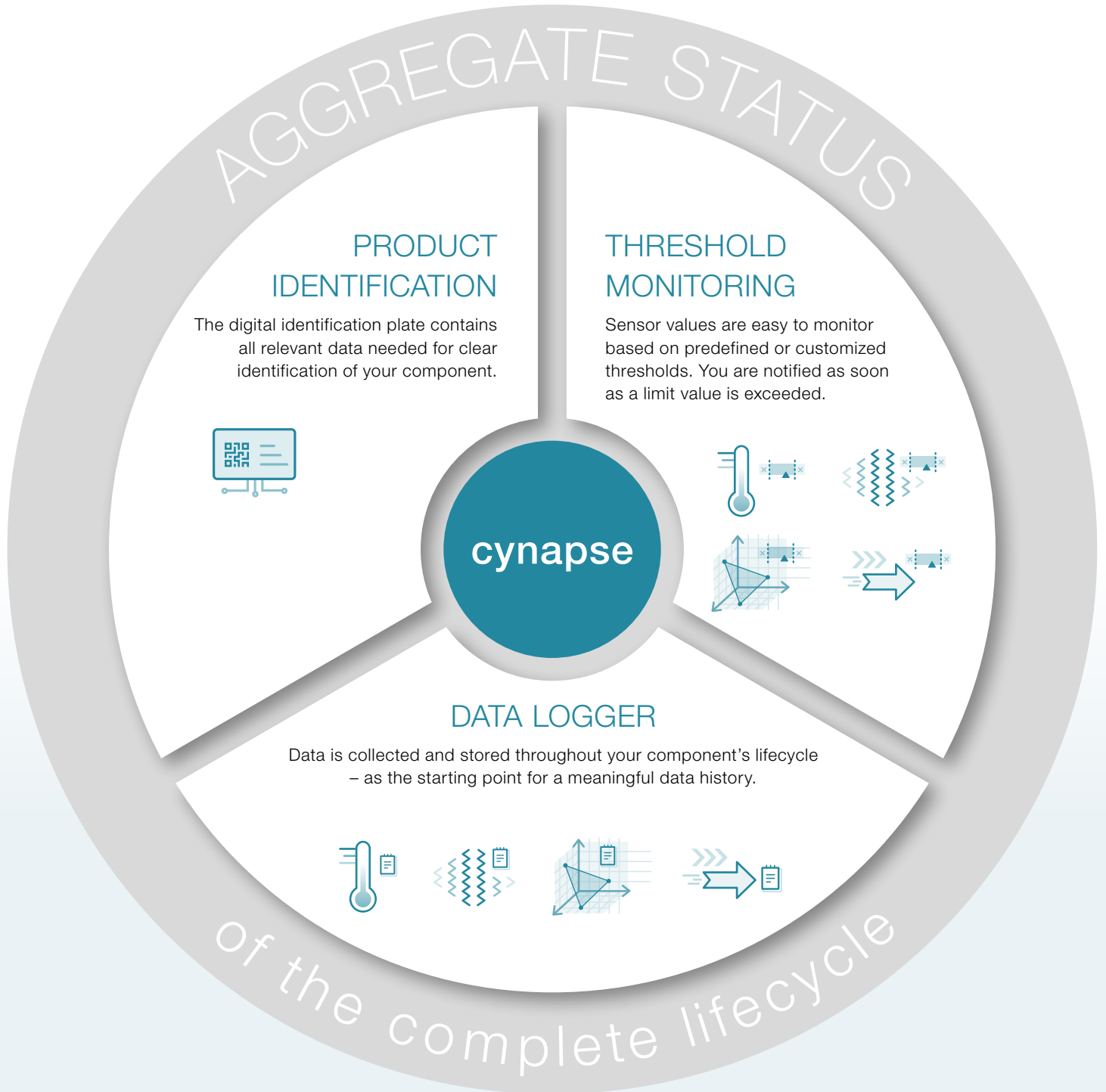
Thanks to cynapse, the gearbox can now be implemented seamlessly in your system landscape with an integrated sensor module and an IO-Link interface. Existing drive solutions need no further modification – the new gearboxes are identical to the models in the WITTENSTEIN alpha Premium Line in terms of design, size and contour. Your products and preferred services can thus be customized very elegantly using the smart gearbox.



Connectivity 4.0

cynapse generates a kind of electronic “fingerprint” of your specific performance, efficiency, transparency and availability requirements. The smart gearbox is able to identify and measure influencing quantities directly in the process and the environment, and then pass them on to the machine control. Furthermore, gearboxes with cynapse can exchange information with applications on IIoT platforms and execute intelligent monitoring activities independently using integrated logic functions that are capable of “thinking”.

Play IIoT – Get connected!



Know what's happening when it happens!

Smart gearboxes measure temperatures and report overheating; they detect vibration and they count operating hours. They store and document all events linked to their use – all data relevant for preventative gearbox maintenance, for example, is supplied to you systematically. This minimizes the risk of gearbox damage and prevents machine downtime.

In short, cynapse makes a decisive contribution towards optimal machine availability and productivity.

PRODUCT IDENTIFICATION



Digital identification

THRESHOLD MONITORING



Temperature check



Vibration check



Mounting position check



Acceleration check

DATA LOGGER



Temperature logger



Vibration logger



Mounting position logger



Acceleration logger



alpha

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WITTENSTEIN alpha – Intelligent drive systems

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