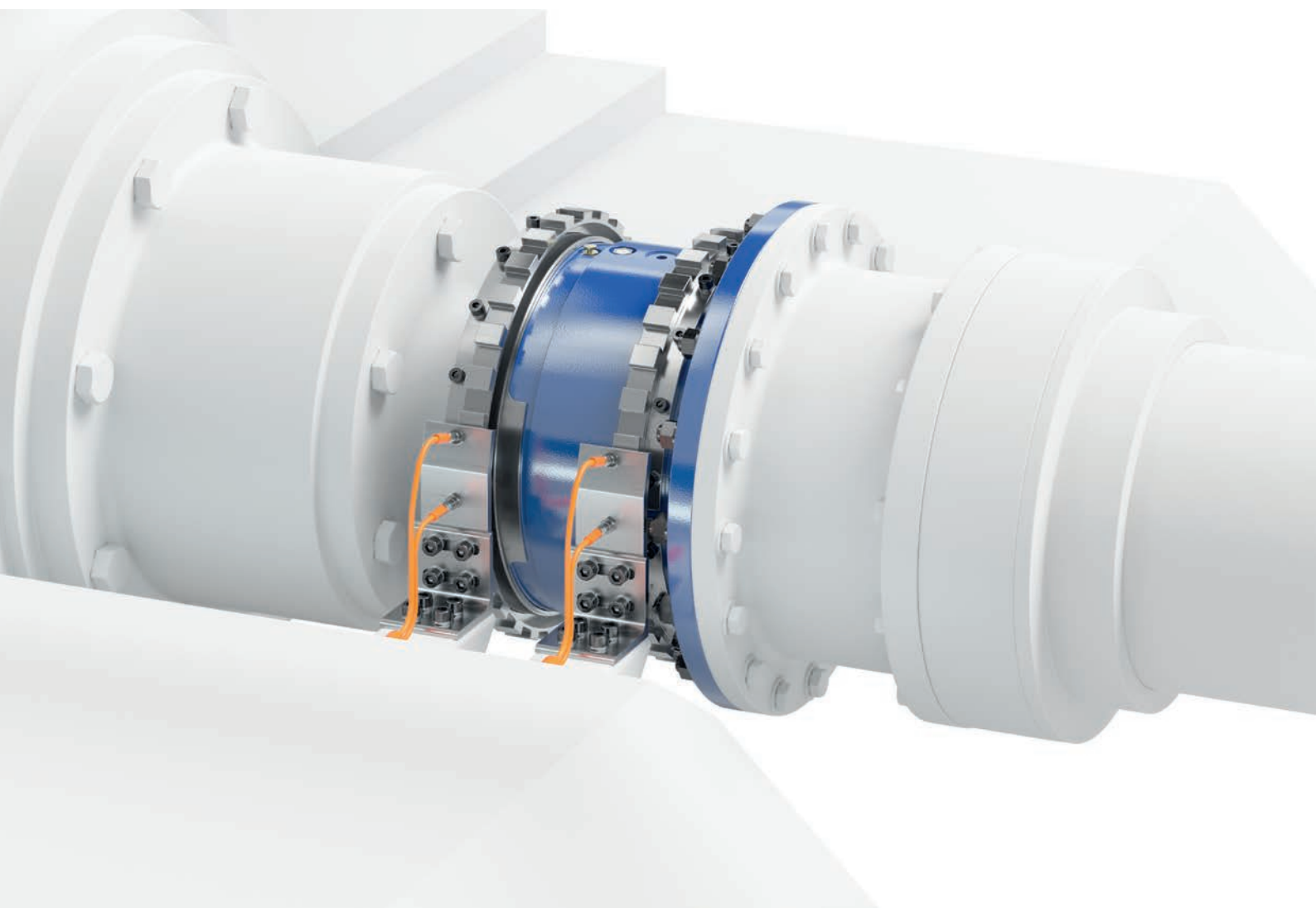


Adding digital intelligence

Dtect





Predict – Protect – Prevent Dtect

Voith Dtect adds digital intelligence to your torque limiting couplings to get real-time monitoring of the driveline performance, productivity and status. The system is designed to communicate coupling status and support better decision-making to predict potential problems, protect the driveline and prevent costly downtime. This will increase the productivity and reduce maintenance.

Voith Dtect makes it easy to supervise and monitor your torque limiting couplings. The system is built on a PLC-based platform using industrial communication standards for easy integration in your existing process monitoring systems.

Dtect detects coupling slippage and/or release that is caused by high torque peaks in a driveline. By monitoring slippage, it is possible to adjust the load of the driveline or to perform a controlled shutdown instead of releasing a coupling. This saves production time, maintenance time and spare parts cost. When non-slip couplings are in operation, the release detection instantly informs the operator that the drive has been disconnected. This information can be used to maximize production efficiency.

Dtect collects the data directly from the driveline, when analyzed this data can be used to ensure the driveline always runs optimally.

Multi-monitoring

The new Dtect system allows monitoring of one or more couplings within one system. This makes it possible to monitor all connected drivelines and get real-time status information by using one central system. The Dtect monitors each coupling individually and communicates the different parameters through one common interface.

Integrated HMI touch panel

The new Dtect system can be fitted with an integrated touch panel. The HMI touch panel gives you the current status information on-site for even better control and overview.

System integration

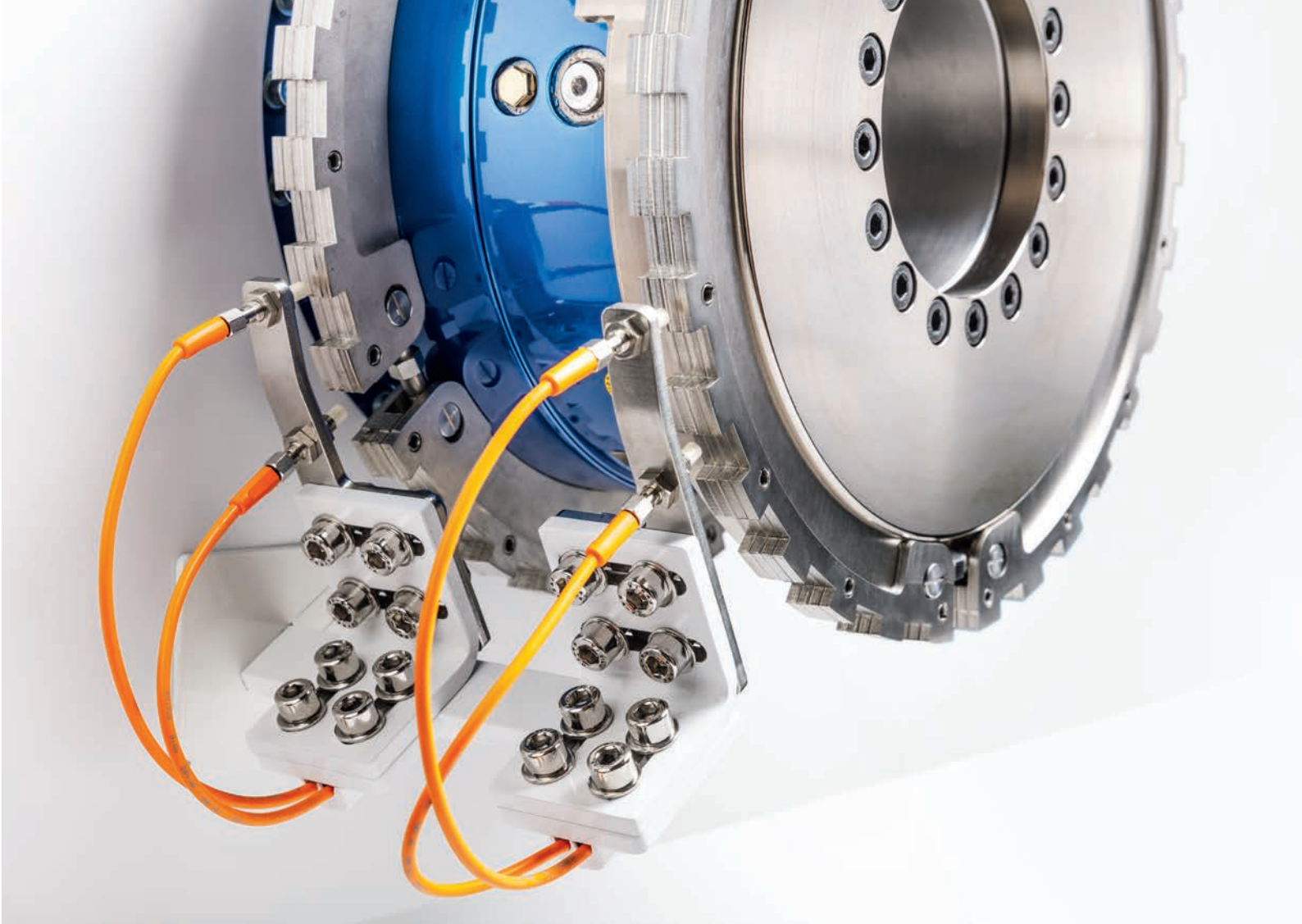
Dtect is supplied with Modbus TCP/IP for easy integration to the existing process information network. Thanks to its flexibility, it can be adopted for other communication standards depending on your needs.

Benefits

- + Real-time monitoring of the driveline status
 - + Possibility to optimize driveline performance
 - + Integration with existing process monitoring systems enables platform independent supervision of data
 - + Prevent costly downtime with proactive maintenance of a coupling
 - + Visual warning indicators can be used for making decisions and actions
 - + Increase productivity of the driveline
-

Technical data

Power supply	24VDC, 1,5A minimum
Working temperature range	-30° to +45°C
Relay output, max	30 VDC, 2A, 30W
Enclosure material	Steel cabinet, IP66
Enclosure dimensions	380 x 300 x 170 mm
Sensor cable length, max	25 m



System overview

Features

Slip monitoring system

Release detection

Speed detection

Slip monitoring

Condition monitoring

History log

Extended sensor range

Dual couplings

User defined limits

Type

Dtect.Slip 320.2

•

•

•

•

•

•

•

Dtect.Slip 320.1

•

•

•

•

•

•

Release detection system

Type

Dtect.Release 221.1

•

•

•

•

•

•

Dtect.Release 220.2

•

•

•

•

•

•

Dtect.Release 220.1

•

•


•

•

•

By adding Voith
Dtect to torque
limiting couplings,
you get real-time
monitoring of your
driveline status.





Voith Dtect is designed to maximize productivity and increase uptime of the driveline. Here is an example of the potential savings.

If the hourly production is worth

€10 000

and an unplanned restart of the driveline usually takes

2 HOURS

and unexpected downtime happens

6 TIMES

a year

the potential savings with our Voith solution is

€120 000

every year

Voith Group
St. Poeltener Str. 43
89522 Heidenheim, Germany

Contact:
Tel. +46 650 540150
info.safeset@voith.com
voith.com/safeset



VOITH