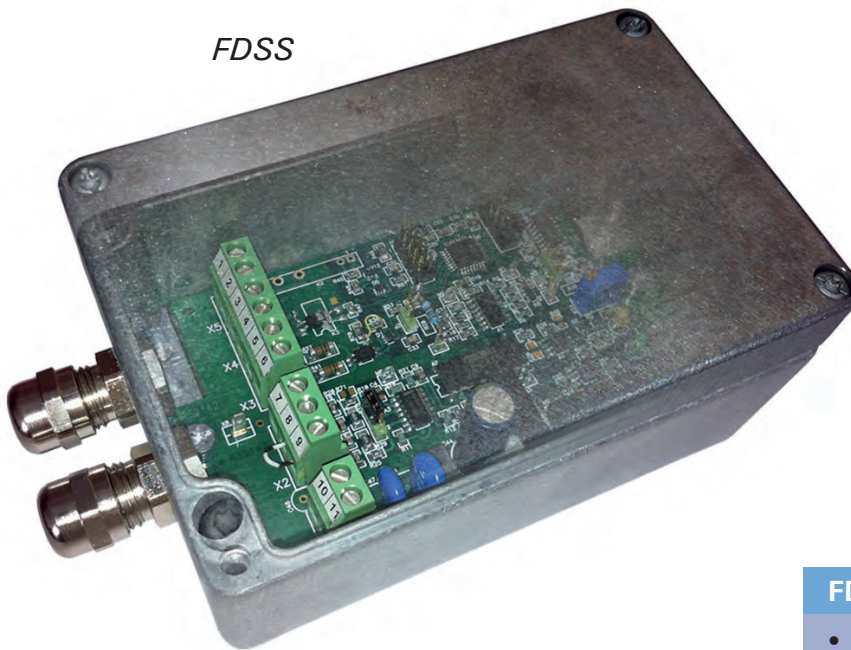


Fault Detection Smart Sensor

KONČAR FDSS

FDSS detects the most common faults in induction motors: rotor cage damage, winding inter-coil short circuits and eccentricity. Fault detection is enabled by a new patent-pending solution for differential measurement of magnetic field inside the motor air gap and electronics for signal acquisition and data processing. This innovative product detects faults with the highest resolution thanks to the new method that processes the signal obtained from the air gap, where faults are most visible and easiest to detect.

FDSS



FDSS Features

- On-line analysis
- Measured data export
- Detailed off-line measurement data analysis
- Data storage
- Wireless data transfer

FDSS functions

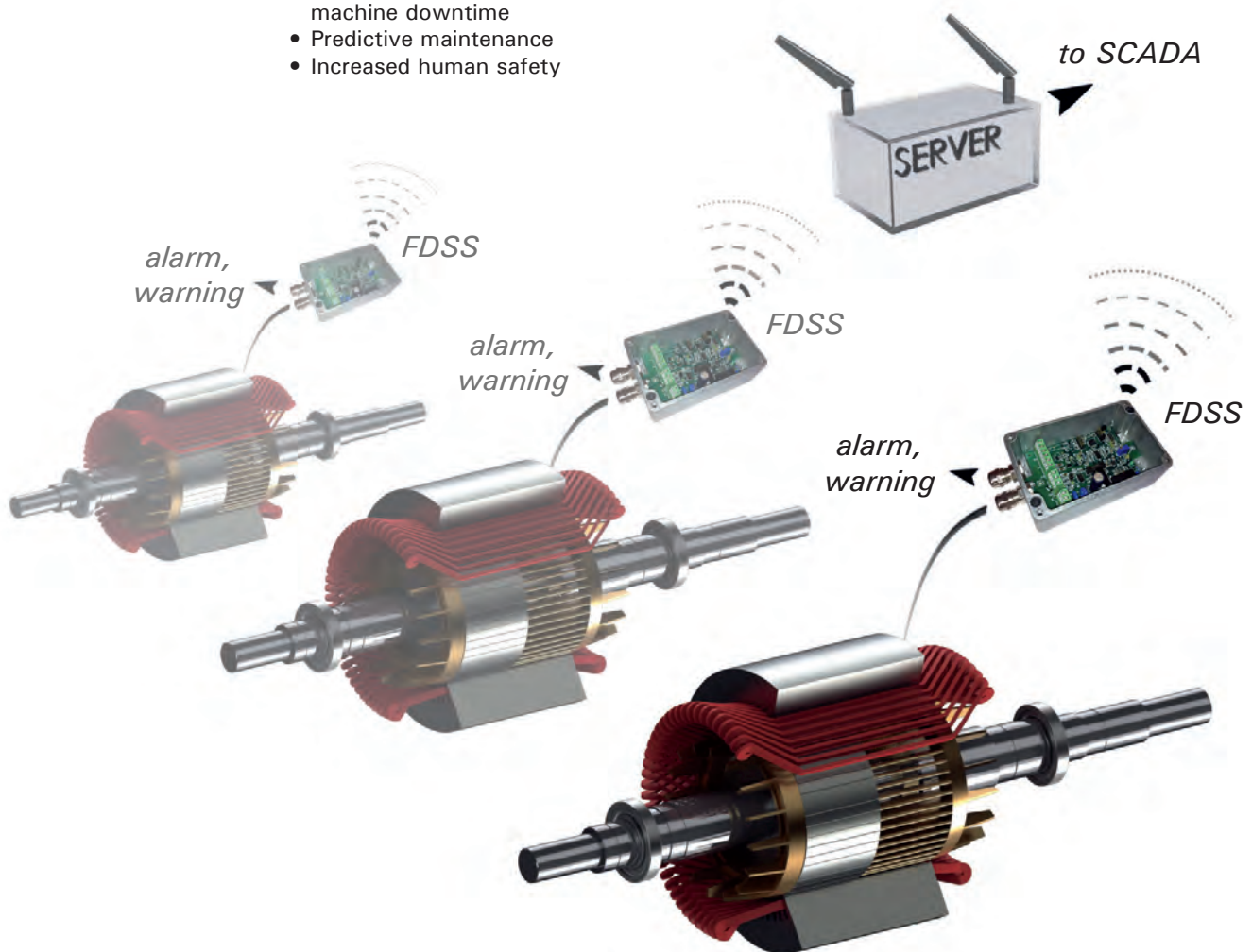
Based on the new patent-pending solution FDSS enables detection of the most common faults in the induction motor:

- One or more broken rotor bars
- Broken rotor ring
- Winding inter-coil short circuits
- Rotor eccentricity

FDSS specification	
Architecture	Real time controller
Inputs and outputs	Voltage inputs (for magnetic field probes) Digital outputs (for alarm and warning)
Communication	RS – 232, wireless (on request)
Data indicators	LED indication for power supply and digital outputs
Data logging	Flash memory
Power supply	24 ± 10% V DC, consumption 50 mA
Operating temperature	-25 to +85 °C
Standards compliance	EMC immunity/emission (EN 61000-6-2/EN 61000-6-4) Vibration/shock resistance (EN 60068-2-6/EN 60068-2-27/29)
Installation	On motor housing

Customer benefits

- Improved asset management
- Early stage fault detection prevents or significantly reduces damage caused by fault and unplanned machine downtime
- Predictive maintenance
- Increased human safety



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