

# SKF Load Sensing Bearings: insights at the speed of light

By using light instead of electricity, bearings fitted with SKF load sensing technology can deliver more data, more reliably and across a bigger range of conditions:

## Wide temperature range

Light-based sensing is unaffected by changes in operating temperature

## Intrinsically safe

Using light removes the risk of electric shocks

## Fiber Bragg grating

Sense strain, load and temperature from within the bearing through light pulses

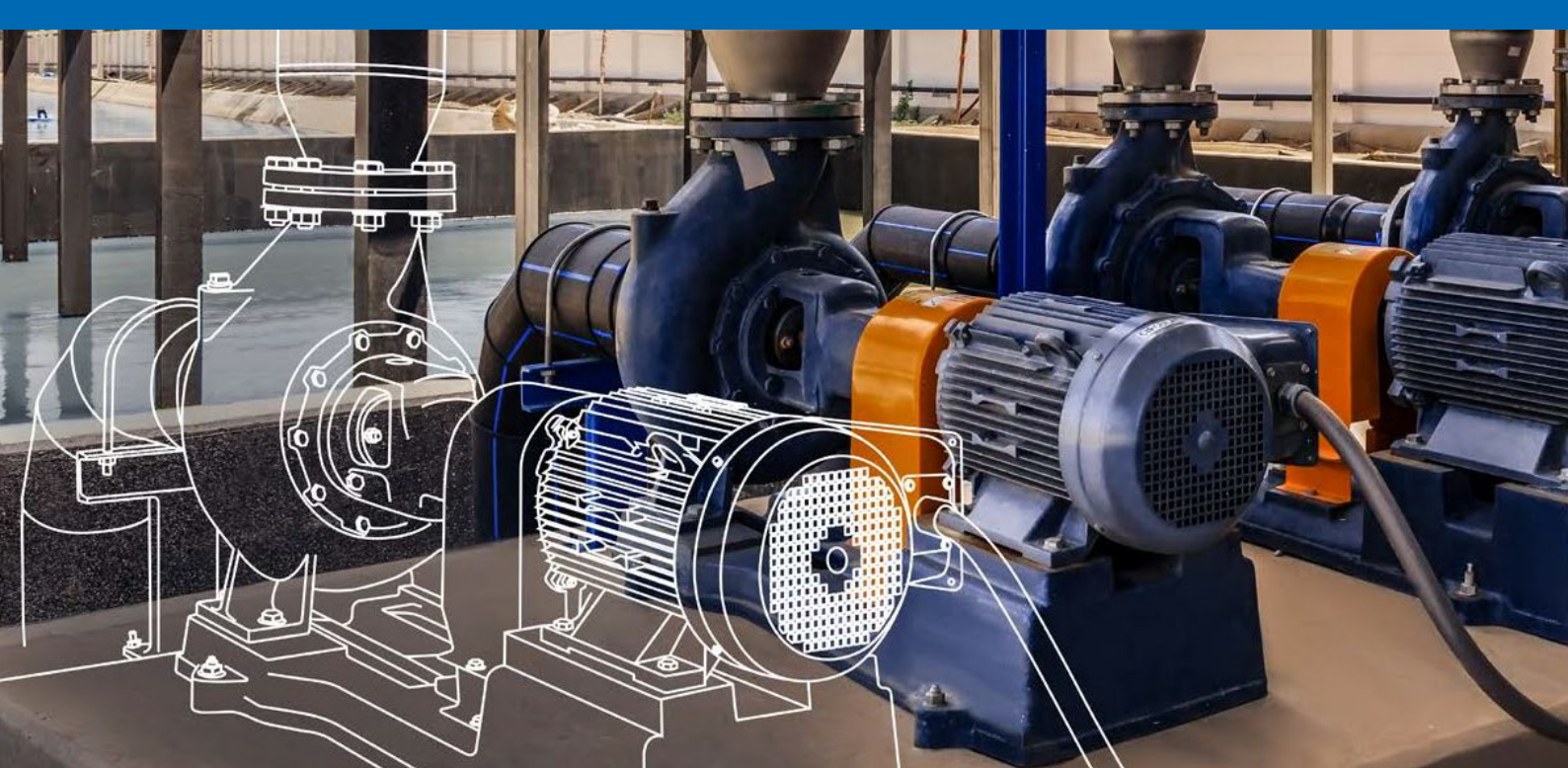
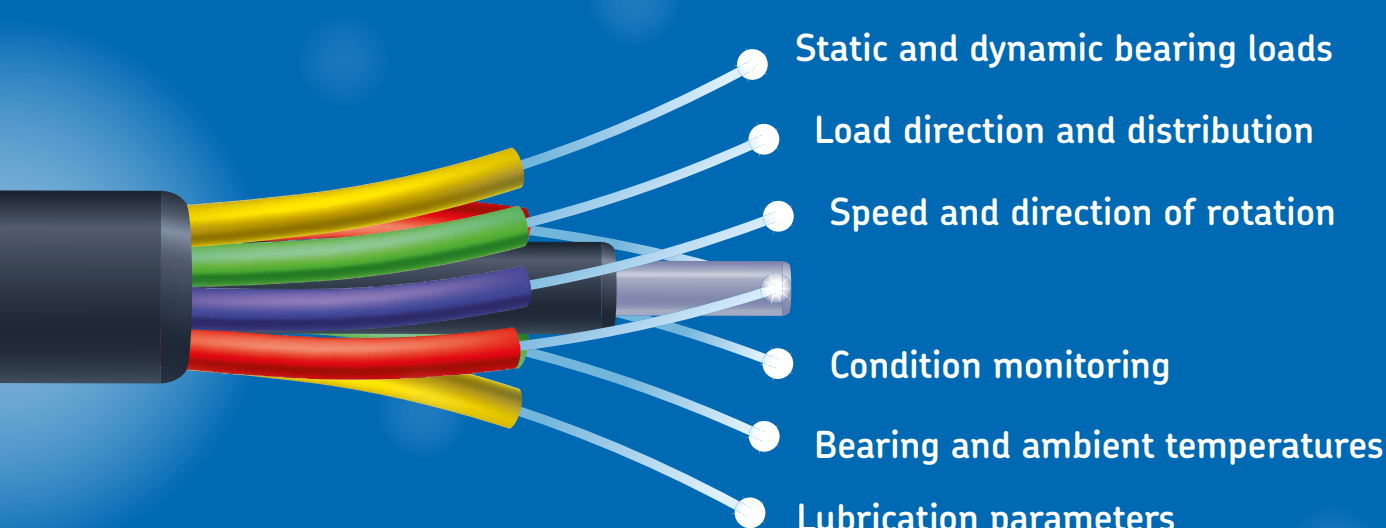
## Suitable for long-distance sensing

Cables can run up to 10km from bearing to control centre

## Liquid and chemical resistant

Transmissions are resilient against harsh operating conditions

When you combine this technology with the **SKF Load Sensing Bearings for pumps and compressors**, you can gain unrivalled real-time insights into machine performance, across:



And when you're equipped with this information, you can improve the way you design, develop and prototype new pump products:



**Cut costs**  
with optimized,  
validated designs



**Make better decisions**  
based on factual  
evidence



**Digitalize your processes**  
and combine with SKF  
engineering tools



**Get to market faster**  
by shortening  
design cycles



**Gain new insights**  
by learning more about  
your machines



**Rely on precision**  
to verify assumptions and  
tighten specifications

**Shed new light on your pump product designs.** Learn more about what you can do with SKF Load Sensing Bearings today.

[Talk to the SKF team](#)

[Explore load sensing with SKF](#)

