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| **At a Glance**   * Measuring inductive distance sensor with IO-Link * Determines distance, switch points, speed up to 3 m/sec, and acceleration * Precise measurement of the target even at very high speeds, switching frequency up to 1400 Hz * Comprehensive additional data and parameterizable limit values for temperature, operating times, and counters * Detailed information for condition monitoring and predictive maintenance (e.g., of shock absorbers, hydraulic cylinders, or valves) * In-house development and production, and comprehensive expertise from pioneers in inductive sensor technology |

# Inductive at High Speeds

## Precise Distance Sensors with IO-Link Interface and In-Depth Analysis

**Leading provider Pepperl+Fuchs is launching measuring inductive distance sensors with an IO-Link interface. High-precision distance measurement and comprehensive information for condition monitoring and predictive maintenance make the devices ideal for Industry 4.0 applications.**

The measuring range is up to 30 mm with a +/-1 % repeat accuracy for distance measurement. The sensors determine the speed and acceleration of the damping element at up to 3 m/sec with a repeat accuracy of 5 %. Limit values can be defined and two independent switching windows can be individually parameterized. The measuring speed and accuracy can be adapted using adjustable filters.  
  
The high switching frequency of up to 1400 Hz contributes to very short cycle times and increased productivity. Additional data, such as temperature, operating times, and counters, is transmitted via the IO-Link interface. The analysis of sub-processes, such as opening/closing of valves and monitoring wear on industrial shock absorbers, is enabled by monitoring speed and acceleration, and their progression. This supports predictive maintenance, machine status monitoring, and helps to avoid unplanned downtime.

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| **Caption** | Family of measuring inductive distance sensors with IO-Link |
| **Download URL**  <https://myconvento.com/public/get_file.php?id=enc2_ZHpoS1pXVnhlV05FYlRoaE4xWnFWbUZ1YUZoVlFUMDk&download=1> | |

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| **Caption** | Detection of wear on industrial shock absorbers |
| **Download URL**  <https://myconvento.com/public/get_file.php?id=enc2_TDJ0RWMySnpUM0F2UWl0RFVIZHZSa2t2VGt0VFVUMDk&download=1> | |

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