

## Long-lasting reduction of downtimes and costs

Production losses due to maintenance work, be they planned or not, bring about considerable costs in everyday operation. "Commercial" inductive proximity switches were previously used in equipping devices for brass bushes, shown here, which were replaced at regular intervals as part of preventative maintenance. Despite these measures in which completely intact devices were replaced, production was occasionally disrupted due to defective sensors.

Because of the change to IO-link capable inductive sensors from ipf electronic, downtimes were significantly reduced and above all over the long-term. The sensors inform the superior PLC using IO- link as soon as they no longer have a sufficient functional reserve. The maintenance department is therefore in a position to plan an operation in good time before a device fails and therefore achieve a condition-oriented and more cost-effective service strategy.

The change to the new, IO-link capable sensors was not problematic because the design of the device remained unchanged. Also, the present sensor lines could still be used. Only the PLC input module had to be replaced by an IO-link capable module.



## Minimized storage and higher flexibility

Who doesn't know about the large storage cabinets, shelves or even rooms of maintenance departments. As a spare part must be available as quickly as possible for every component that is installed and replaceable in a production system in the event of a defect or interference with a view to achieving a high degree of system availability, this cost is entirely justified but not strictly necessary.

Storage and with it related costs or rather the capital commitment can be clearly reduced by changing to IO-link capable devices. Conventional sensors were replaced by IO-link capable devices, for example, in the tool that is seen in the picture.

It is therefore no longer necessary to store separate opening and closing devices as spare parts. The storage costs decrease. Furthermore, the new, IO-link capable sensors can also be debounced using integrated turn-on delay. Until now, this function had to be assumed by a PLC. It was possible to convert the tool at low cost because of the long range of the cables of up to 20 meters and the low demands that were made of the wiring of the IO-link capable devices.

