



# EXCEPTIONALLY SIMPLE

IO-LINK FROM DI-SORIC

 **di-soric**

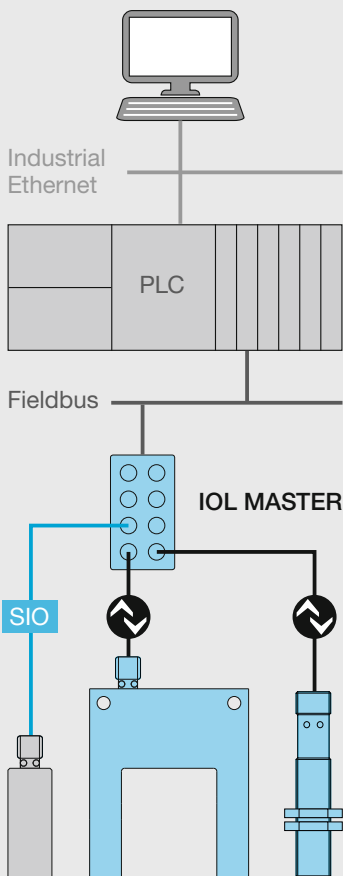
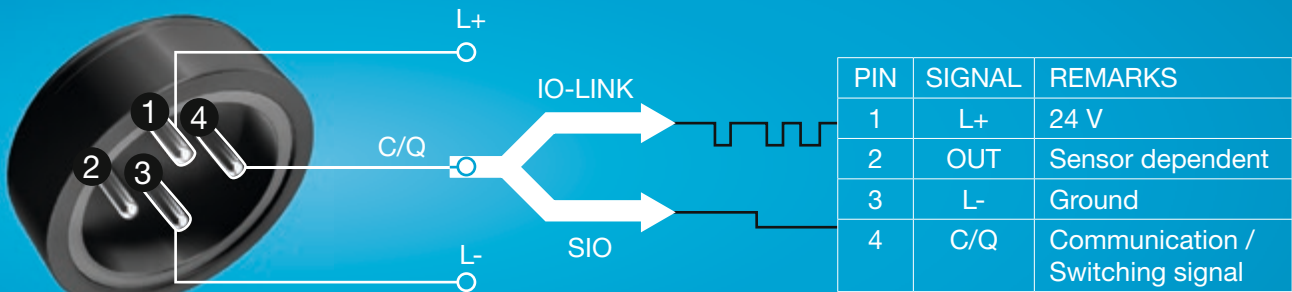
# IO-LINK BASICS AND TECHNOLOGY

## GET STRAIGHT TO THE POINT.

IO-Link provides a point-to-point connection within any network, fieldbus or backplane bus. The IO-Link master can be installed either directly in the field or in the control cabinet.

Any sensor, actuator or even a combination of the two can be an IO-Link device. This device is connected to the IO-Link master by a standard connecting cable up to 20 m long. The IO-Link device communicates with the IO-Link master using a driver file (the IO-DD – IO-Link Device Description) and can send and receive signals (binary switch signals or analog signals). The IO-Link digitizes these signals directly so that they can be transferred virtually free of interference.

The international IO-Link standard (in accordance with IEC 61131-9) is now regarded as an **"enabler for Industry 4.0"**



- **SERIAL TWO-WAY POINT-TO-POINT CONNECTION** for signal transmission and energy supply (no new bus system!)

- **BACKWARD COMPATIBLE** for switching PNP or push-pull sensors

- **OPERATION MODES** Standard-I/O mode (SIO), IO-Link mode

- **3 COMMUNICATION SPEEDS** 4,800 (COM 1), 38,400 (COM 2), optional 230,400 baud (COM 3)

- **UNSHIELDED STANDARD INDUSTRY CABLE** and standard M12, M8 or M5 plug connectors

- **2 TRANSMISSION TYPES** Process data (e.g. switch signals or distance values) is transmitted cyclically, service data (e.g. parameters) is transmitted acyclically

# 5 REASONS FOR IO-LINK



## 1. Cost reduction

through reduced stockkeeping

## 2. Implementation of innovative machine concepts

thanks to consistent communication

## 3. Shortened commissioning times

with cabling according to standards

## 4. Increased machine productivity

through independent parameterization and identification

## 5. Revolutionization of maintenance

through self-diagnostics

## IO-LINK FROM DI-SORIC

### PUT YOUR SYSTEMS INTO OPERATION MORE QUICKLY.

Using IO-Link is easy, and requires no additional explanation so you can quickly parameterize sensors for your application that are otherwise complicated to adjust.

### IOL MASTER 1 PORT > USB



#### WHAT WE HAVE FOR YOU:

#### 3 USER LEVELS set up in the IODD:

- OPERATOR View only
- MAINTENANCE Teach in and change released settings
- SPECIALIST Full access to all provided setting options

#### ONLY THE RELEVANT SETTING OPTIONS

provided in the IODD and not the exhaustive, full listing of all options, which would be distracting.

#### THE IODD COMPLETELY DEVELOPED IN ACCORDANCE WITH THE SMART SENSOR PROFILE

and opening up the option to configure the sensor directly over the PLC without additional parameterization software. The Smart Sensor Profile describes the configuration of the most important indexes and subindexes, allowing devices to be addressed directly over the master if the IODD is not accessible at some point.

#### SOFTWARE THAT DOES AWAY WITH LENGTHY EXPLANATIONS

You know intuitively what each property represents.

**SOLUTIONS. CLEVER. PRACTICAL.**

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