

AS-Interface

Automation Made Simple



Bihl
+ Wiedemann
...
THE AS-INTERFACE MASTERS

What is AS-Interface?

AS-Interface is a globally standardized fieldbus system (EN 50295 and IEC 62026-2). It is a system that links sensors and actuators to a controller over a common data transmission path.

Data and power through a single cable

The abbreviation ASi stands for Actuator-Sensor Interface. This interface connects the modules in the lowest process level in automation systems with each other. The usual cable trees are replaced here by a single electrical cable – the ASi cable. This cable carries both data and power.

The four ASi components

Leading manufacturers around the world support this simple wiring system. It consists of four components: the master, the slaves, a power supply and the yellow ASi cable. Each slave has a unique address

assigned to it which the master uses to exchange in- and output data. Insulation penetration technology means the modules can be quickly and easily attached or moved on the ASi cable.

Quickly identify and fix errors

Diagnostics units or masters with built-in diagnostic functions make troubleshooting easier. Failed slaves can be quickly identified, replaced and automatically re-addressed by the master.

An all-round good idea

In short: ASi is a system requiring little installation and maintenance effort, saving time and money. Additionally it is one of the simplest field busses, making its handling possible without specialized knowledge.

Simply a Powerful System



Safety – so problem-free

AS-Interface lets you even realize safety-relevant (EN ISO 13849) and noise-immune installations.

Compatibility – so open

Operate with virtually any bus system: PROFIBUS, PROFINET, CC-Link, EtherNet/IP etc.

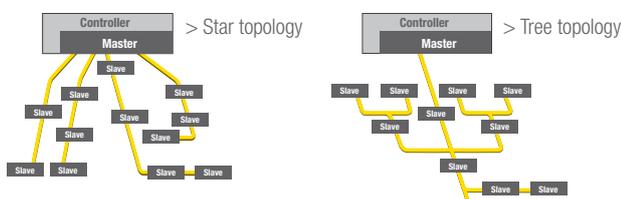
Installation – so simple

AS-Interface pioneered a clever installation technology with its unique flat cable. Simply insert cable, tighten down, and you're done.

Costs – so low

AS-Interface drastically reduces wiring and installation cost and makes expansion or retrofitting very simple.

ASi allows you to freely choose your topology. For example:



AS-Interface: Market and Facts

- There are more than 32 million active ASi devices worldwide
- 6 million of these are safety devices
- Over 1800 certified products
- Safety relevant units with around 70% growth rate

Status 2015

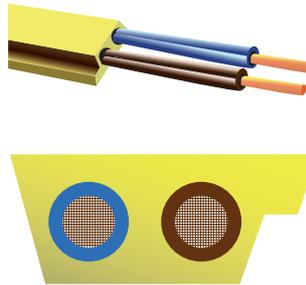
Components of the ASi Network



The Master
connects sensors and actuators through the ASi slaves to the higher-level controller.



The Slave
reports to the master, has its own address and up to four in- or outputs.



The Cable
sends data and power over two conductors.



The Power Supply
supplies the ASi network with 30 volts.

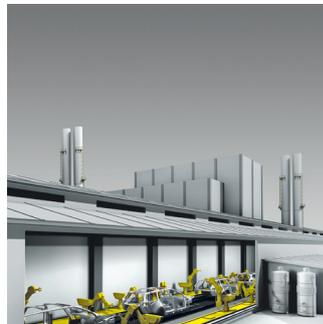
Versatility



Building Automation



Process Automation



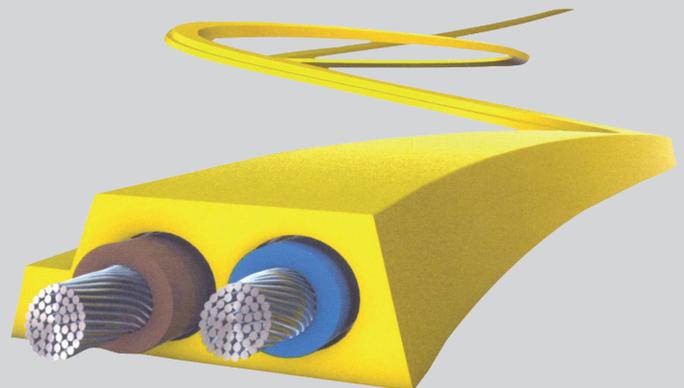
Factory Automation



Vehicle Automation

Overview of ASi Virtues

- Simple, low-cost commissioning
- Just one cable for data and power
- Noise-immune – ideal for safety-relevant equipment
- Free topology – each slave can be located at any desired point
- Cost-saving
- System- and manufacturer-neutral
- Simple to configure and expand



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The logo features the word "Bihl" in a large, bold, sans-serif font. A thin black arc curves around the top-left of the letter "i". Below "Bihl" is a plus sign "+", followed by the word "Wiedemann" in a similar bold, sans-serif font. Underneath "Wiedemann" are three dots "..." arranged horizontally.

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