Bihl +Wiedemann

Installation guide – first steps

AS-Interface is designed as a potential-free and ground-symmetrical system. It offers high interference immunity even without additional measures, such as shielding in industrial environments.

AS-Interface key features

Transmission of data and power on the same cable

Protection class IP20 to IP67, depending on housing model

Maximum cable length of 200 m with bus termination

Standard and safety signals on the same AS-Interface cable
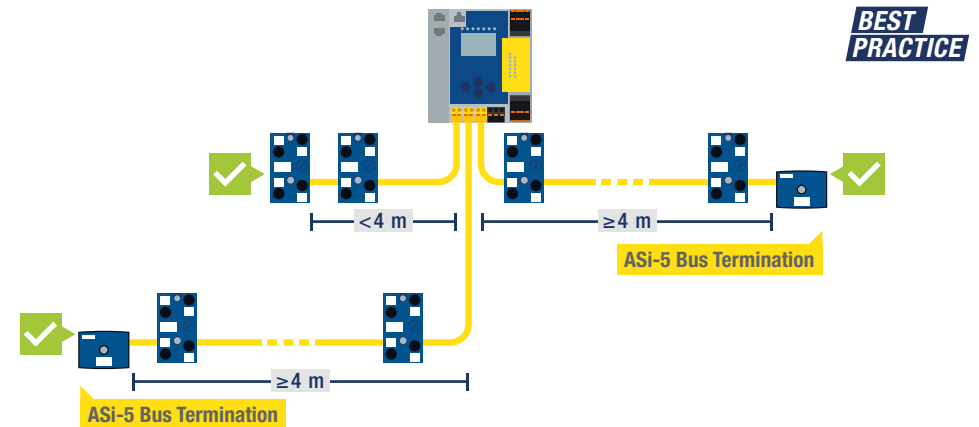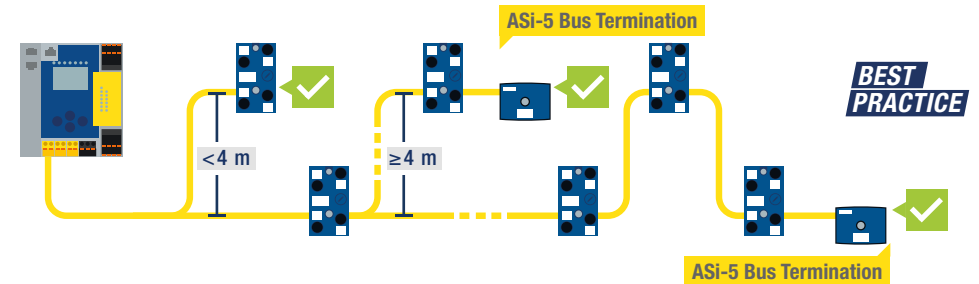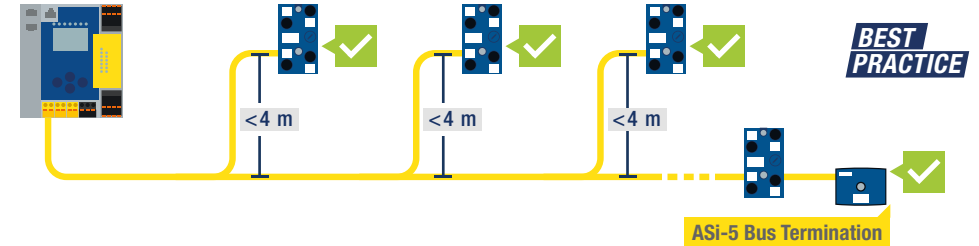
Freely choose your topology

For better understanding, please watch out for the following symbols:

✅ This installation offers the highest interference resistance and helps to avoid errors.

⚠️ This installation may be prone to faults, interferences and errors.

❌ This installation will lead to faults, interferences and errors in the ASi communication.
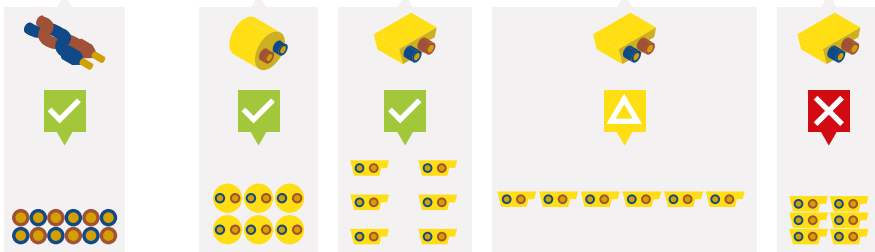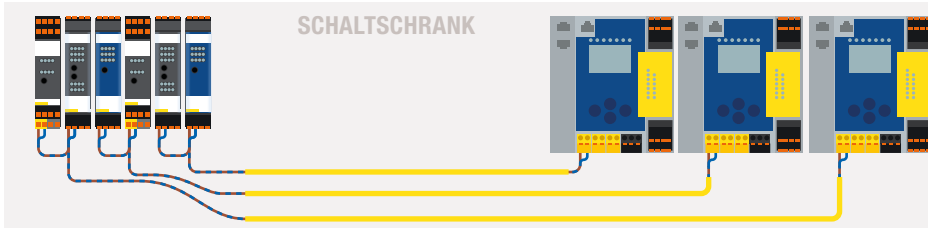
ASi-5 Topologie

BEST PRACTICE

< 4 m   < 4 m   < 4 m

ASi-5 Bus Termination

BEST PRACTICE

ASi-5 Bus Termination

< 4 m   ≥ 4 m

ASi-5 Bus Termination

BEST PRACTICE

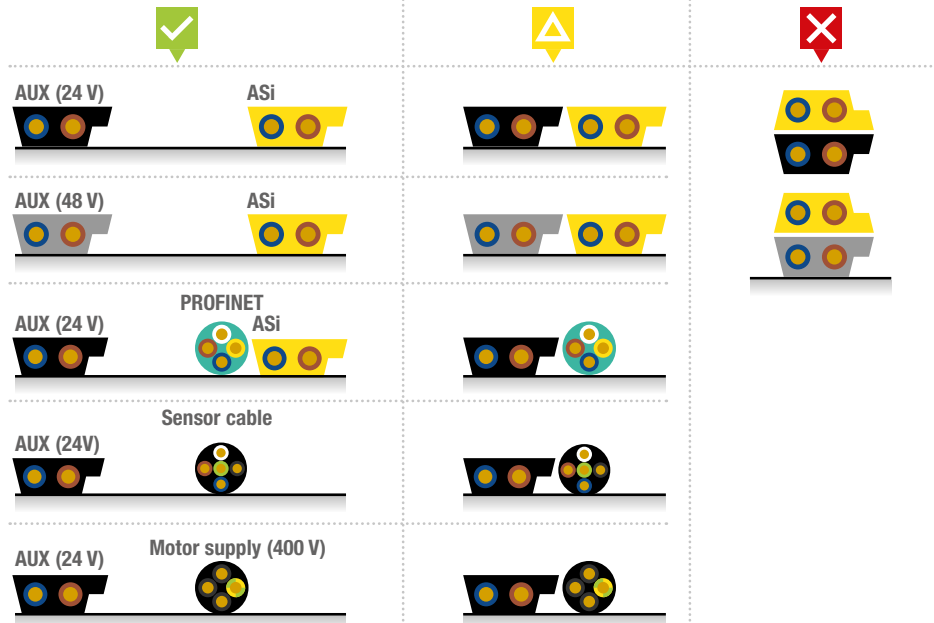< 4 m   ≥ 4 m

ASi-5 Bus Termination

≥ 4 m

ASi-5 Bus Termination

▸ An ASi-5 bus termination at the end is recommended.

▸ Branches/stub lines >4 m should be terminated at the end with an ASi-5 bus termination.
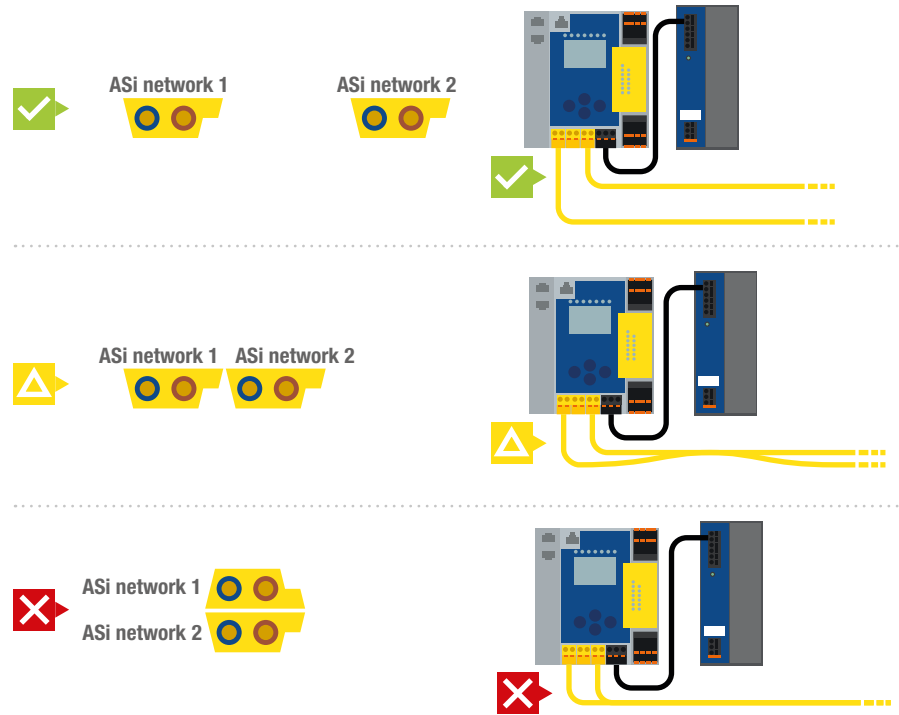
▸ Max. 5 ASi-5 bus terminations per ASi circuit possible.

Installation in the Control Cabinet

SCHALTSCHRANK

Installation in the field / EMV

AUX (24 V)	ASi		

AUX (48 V)	ASi		

AUX (24 V)	PROFINET ASi		

AUX (24V)	Sensor cable		

AUX (24 V)	Motor supply (400 V)		

Installation in the field / minimizing ASi-5 crosstalk

ASi network 1   ASi network 2

ASi network 1   ASi network 2

ASi network 1
ASi network 2

ⓘ This is a short version of our installation guide. One Detailed version can be found here:

Go to the installation guide ➡

If you have any questions, please contact us: **+49 621 33996-940**