

For initial set up, we strongly recommend that you also refer to the relevant manual!

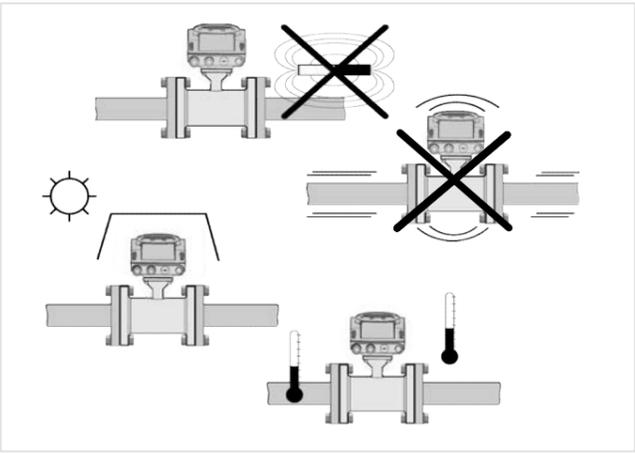
### IFC 050 Signal converter for electromagnetic flowmeters

-  Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel.
-  This instrument complies with requirements of Low Voltage Directive. Instruments must not be connected to power supply before reading instructions described in the manual.
-  The responsibility as to the suitability, intended use and corrosion resistance of the used materials against the measured fluid of this device rests solely with the operator.
-  This device cannot be used in Hazardous Locations or Explosive Gas Atmospheres!

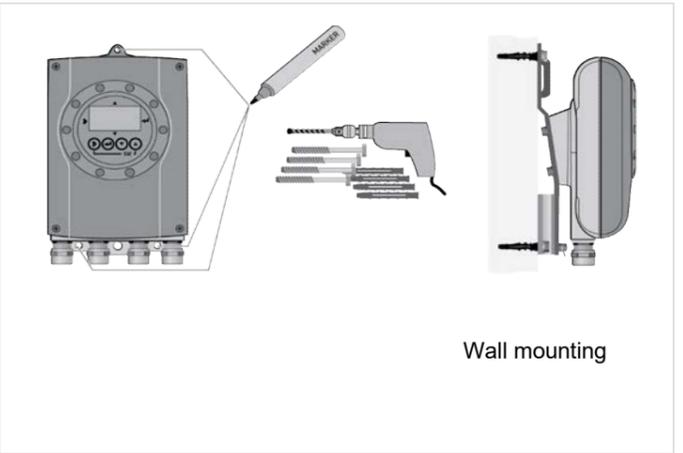
### 1 Installation

#### General installation requirements

Refer to the documentation of the flow sensor for specific installation conditions. 



Avoid vibration / Electromagnetic fields  
Use sunshade / Check medium and ambient temperature specifications



Mounting the field housing, remote version

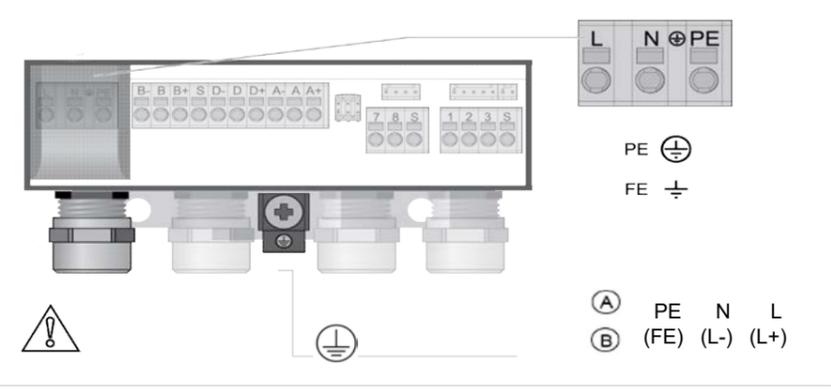
### 2 Electrical connection

-  All work on the electrical connections may only be carried out with the power disconnected. Take note of the voltage data on the nameplate! Observe the national regulations for electrical installations!  
The device must be grounded in accordance with regulations in order to protect personnel against electric shocks.
-  There should be no difference in potential between the flow sensor and the housing or protective earth of the signal converter.
-  Observe without fail the local occupational health and safety regulations. Any work done on the electrical components of the measuring device may only be carried out by properly trained specialists.
-  Refer to the manual for more details on connection options and preparing the signal and field current cable.

#### Electrical connections signal converter

#### Power supply - grounding

-  **(A)** 100...230 VAC (-15% / +10%), 15 VA
- (B)** 24 VDC (-30% / +30%), 5.6 W



#### General

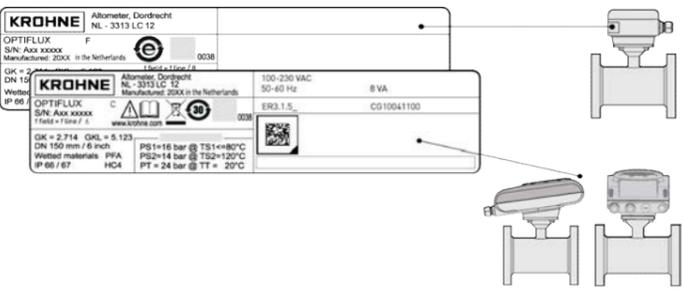


Maximum ambient and process temperatures are depending on version (e.g liner material, size), temperature and protection class and maximum surface temperature of sensor.

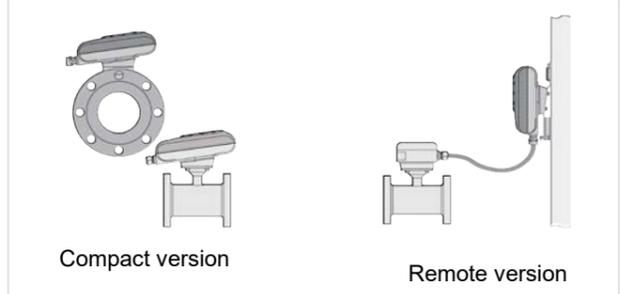


Check the device nameplate to ensure that the device is delivered according to your order.

#### Device nameplate (example)



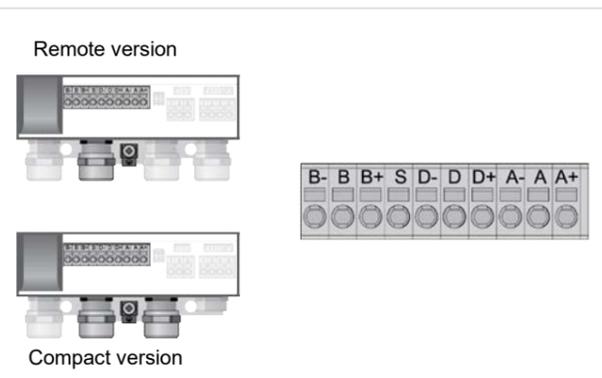
#### Device version(s)



#### Transport

- No special requirements
- Use the original packing of the device(s) when transporting to the installation location.

## I/O connections



S	Shield connection terminal
A, B, D	I/O positive terminal (+)
A+, B+, D+	I/O positive terminal (+)
A-, B-, D-	I/O negative terminal (-)

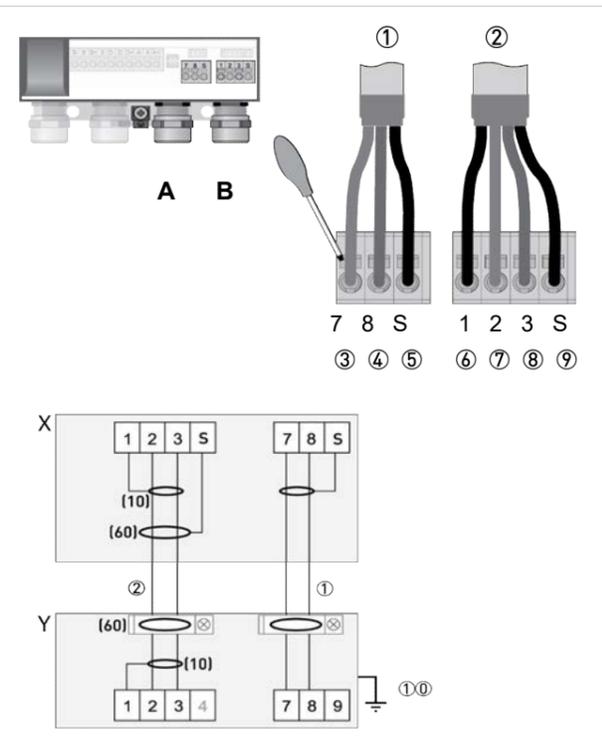
A	Current output
D	Frequency / pulse output
B	Modbus I/O (option)
D	Status output

Observe connection polarity

Refer to the manual for more details on connection options / Connection diagram



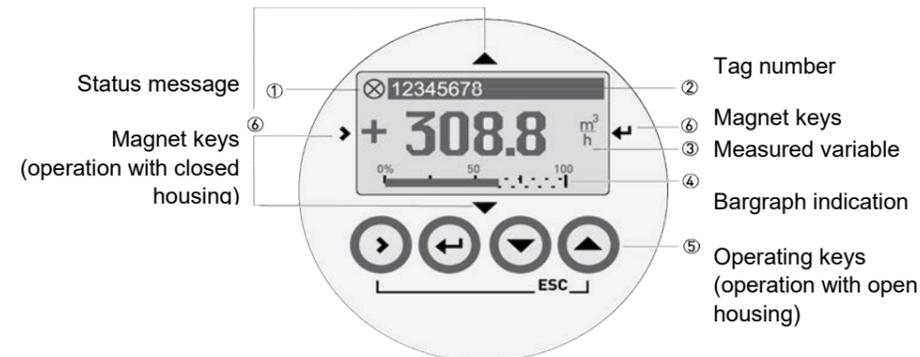
## Sensor cable connections



① / A	Field current cable
② / B	Signal cable A (DS 300)
③	Electrical conductor (7)
④	Electrical conductor (8)
⑤	Shield connection terminal (S)
⑥	Inner shield of signal cable (1)
⑦	Electrical conductor (2)
⑧	Electrical conductor (3)
⑨	Shield connection terminal (S)
⑩	Functional ground (FE)

X	Signal converter terminal compartment
Y	Flow sensor connection box

## 3 Quick Setup



Measuring mode	Select menu	Select Submenu	Functions
Press > 2.5 s	↑ ↓	↑ ↓	↑ ↓ >
A	A1 language		
quick setup	A2 HART	A2.1 Tag	
	A3 RS 485 / Modbus	A3.1 Tag	
		A3.2 slave address	
	A4 reset?	A4.1 reset errors	
		A4.2 counter 1	
		A4.3 counter 2	
	A5 analogue outputs	A5.1 range	
		A5.2 time constant	
		A5.3 low fow cutoff	
	A6 digital outputs	A6.1 max. pulse rate	
		A6.2 pulse value unit	
		A6.3 value p. pulse	
	A7 process input	A7.1 device serial no.	
		A7.2 zero calibration	
		A7.3 size	
		A7.4 GKL	
		A7.5 field frequency	
		A7.6 flow direction	

### Download documents/software

Scan the code on the nameplate or scan the following code and enter the serial number.



## Contact

Select your country from the region / language selector to view your local KROHNE contact details on:

[www.krohne.com](http://www.krohne.com)