



Brief Operating Instructions

Nivector FTI26

IO-Link

Capacitance

These Instructions are Brief Operating Instructions; they are not a substitute for the Operating Instructions pertaining to the device.

Detailed information about the device can be found in the Operating Instructions and the other documentation:

Available for all device versions via:

- Internet: www.endress.com/deviceviewer
- Smart phone/tablet: *Endress+Hauser Operations App*

Basic safety instructions

Requirements for the personnel

The personnel for installation, commissioning, diagnostics and maintenance must fulfill the following requirements:

- Trained, qualified specialists must have a relevant qualification for this specific function and task
- Are authorized by the plant owner/operator
- Are familiar with federal/national regulations
- Before starting work, read and understand the instructions in the manual and supplementary documentation as well as the certificates (depending on the application)
- Follow instructions and comply with basic conditions

The operating personnel must fulfill the following requirements:

- Must be suitably trained and authorized by the plant operator to meet the requirements of the task
- Follow the instructions in this manual

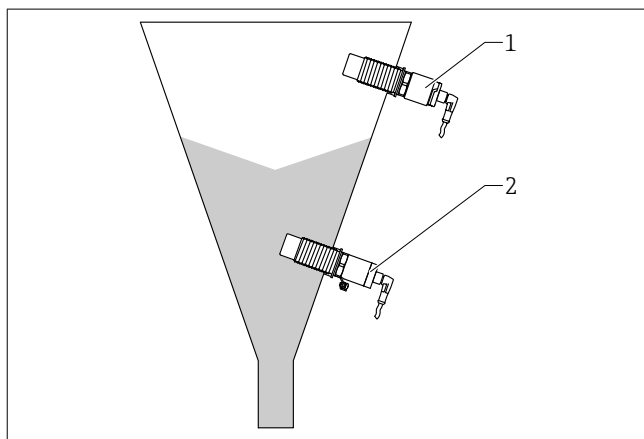
Intended use

Mounting

Mounting requirements

Lateral mounting in bulk solids vessel, e.g. silo

A miniature contactor, a solenoid valve or a programmable logic controller (PLC) can be connected directly to the point level switch.



1 Application examples

1 Overfill protection or upper level detection (MAX)

The device may be used only as a point level switch for powdered and fine-grained bulk solids. It is used to detect minimum or maximum levels. The device may only be used for media to which the process-wetted materials are sufficiently resistant. The limit values for the operating time may not be exceeded or undershot, see the Technical Information manual.

Operational safety

- Operate the device only if it is in proper technical condition, free from errors and faults.
- The operator is responsible for the interference-free operation of the device.

Hazardous area

To eliminate a danger for persons or for the facility when the device is used in the hazardous area (e.g. explosion protection or safety equipment):

- Based on the technical data on the nameplate, check whether the ordered device is permitted for the intended use in the hazardous area.

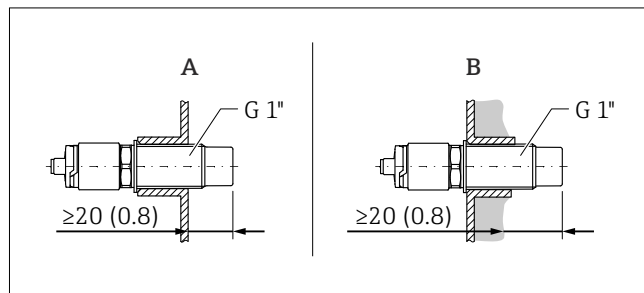
2 Dry-running protection or lower level detection (MIN)

Mounting the device

Required tools

- Open-ended wrench AF32
- When screwing in, turn by the hex bolt only.
- Torque: 5 to 12 Nm (3.7 to 8.9 lbf ft)

Installation examples



2 Engineering unit: mm (in)

- A Standard installation with external G 1" threaded adapter
- B Where buildup occurs on the silo wall with internal G 1" threaded adapter

i For more installation variants, see the Operating Instructions and the Technical Information manual.

i Other installation methods are possible with optionally available accessories.

Electrical connection

Connecting the device

- Supply voltage 12 to 30 V DC
- In accordance with IEC/EN61010 a suitable circuit breaker must be provided for the measuring device.
- Voltage source: Non-hazardous contact voltage or Class 2 circuit (North America).
- The device must be operated with a 500 mA fine-wire fuse (slow-blow) which is suitable for DC current in accordance with IEC 60127-2.
- Depending on the analysis of the switch outputs, the measuring device works in the MAX or MIN modes.

Type of connection	IO-Link with one switch output
M12 plug	<p>1 Supply voltage + 2 DC-PNP (Q2) 3 Supply voltage - 4 C/Q1 (IO-Link communication or SIO mode)</p>

Type of connection	Operating mode (SIO mode with factory setting)	
	MAX	MIN
M12 plug	<p> Pin 1-2 ● Pin 1-4 ● </p>	<p> Pin 1-4 ● Pin 1-2 ● </p>
Symbols	Description	
※	Yellow LED lit	
●	Yellow LED not lit	
K	External load	

For information on commissioning, see the Operating Instructions.