

INSTRUCTIONS AND MAINTENANCE MANUAL

OPTICAL LEVEL SWITCH

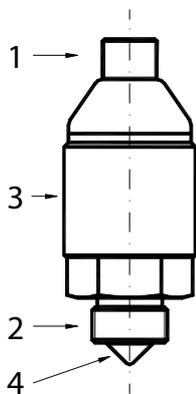
Read and understand the operating instruction before starting any work. Keep the instruction for later use.

1 GENERAL INFORMATION

1.1 Functional description

The optical sensor is located in a metallic body which includes a polysulfone prism inside of which there is inserted an infrared transceiver. As soon as the sensor is immersed in the liquid, the refraction index of the prism changes and a large part of the infrared beam is dispersed in the liquid, causing the output to change state.

- 1 – Electrical connection 3 – Housing
2 – Process connection 4 – Prism



1.2 Intended use

This optoelectronic level switch can be used exclusively for monitoring the levels of liquid media.

- Do not use with liquids with large contamination and liquids that can crystallize. Do not use with liquids that are not compatible with the contact parts.
 - Do not use with abrasive liquids, highly viscous media and colors.
 - Do not use this optoelectronic level switch in hazardous areas.
- Trafag shall not be liable for claims of any type based on operation contrary to the intended use.

This optoelectronic level switch must be used only by skilled personnel with appropriate education and training.

1.3 Improper use

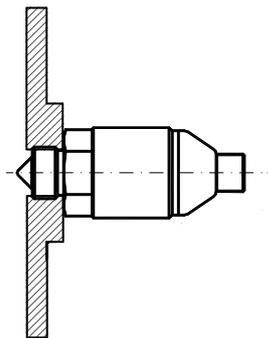
Any use beyond or different to the intended use is considered as improper use.

Do not use this optoelectronic level switch in safety or emergency stop devices.

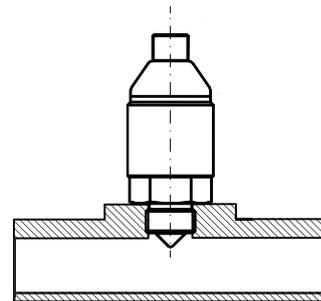
2 COMMISSIONING AND MOUNTING

- Mounting torque 15 ... 20 Nm
- Mount the instruments on the process connection according to the respective standards.

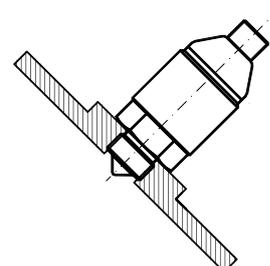
HORIZONTAL INSTALLATION



VERTICAL INSTALLATION



ANGLED INSTALLATION



10/2017

Instruction H21042a

3 ELECTRICAL CONNECTION

Wiring and electrical output

		Contact type	
		NPN	PNP
Code	S1	<p>Output low in no level condition</p> <p>15 ... 35 VDC GND</p>	<p>Output high in no level condition</p> <p>15 ... 35 VDC GND</p>
	S3	<p>Output low in no level condition</p> <p>15 ... 35 VDC</p>	<p>Output high in no level condition</p> <p>15 ... 35 VDC</p>

4 MAINTENANCE AND CLEANING

- When using properly, the instruments does not need any particular maintenance
- Repairs must only be carried out by the manufacturer
- External cleaning of the instruments could be done by using a moist cloth
- Do not use any aggressive cleaning agents
- Electrical connections must not come into contact with moisture

5 DISPOSAL

Dispose of instrument components and packaging materials in an environmentally compatible way and in accordance with the country-specific waste disposal regulations.

Additional information

Documents	Instructions	H21042	www.trafag.com/H21042
	Data sheet	H20042	www.trafag.com/H20042