



## Product information

### INDUcoder NIRO ABSOLUT NO SHAFT ENCODER NAH

Optical absolute no shaft encoder  
hollow shaft 8, 10, 12 or 15 mm diameter

Stainless steel housing with 58 mm diameter

Single-turn and multi-turn with resolution  
up to 30 bit

Interfaces: SSI, INTERBUS, PROFIBUS,  
CANopen, Device Net, PARALLEL

Protection class IP 65, IP 66 optional

Shock resistance 300 ms<sup>-2</sup>

All absolute encoders with standard package diameter 58 mm with hollow shaft are also manufactured with stainless steel housing with the following interfaces: SSI, INTERBUS, PROFIBUS, CANopen, Device Net and Parallel. Due to the stainless steel housing absolute encoders are extremely resistant to rough environmental conditions and can be used with standard installation dimensions of 58 mm.

The presented **NIRO ABSOLUT NO SHAFT ENCODER NAH 58/Profibus** is manufactured with hollow shaft with diameters 8, 10, 12, or 15 mm and with resolutions 12, 13 and 16 bit per revolution as single-turn and multi-turn encoder with measurement range of 4,096 and 16,384 revolutions. Data format for transmission via the Profibus is binary code. Supply voltage is 10 – 30 VDC.

The electrical connection is from the rear via the connection cover with cable glands made of stainless steel. The terminal connectors for Profibus interface and power supply voltage are **slanted by an angle of 45°**, which makes connecting much easier. The terminal connectors are provided each for the incoming and outgoing lines.

The device address is set by two **decimal coded rotating switches**. **Therefore time-consuming conversion of the binary code is unnecessary**, as it is inevitable using DIP-switches. If required, the termination for the Profibus interface may be activated by a switch. The outgoing terminals for the Profibus are disconnected. **Therefore false configurations are immediately detectable, if several devices are connected to the Profibus.**

When a new encoder is connected or exchanged, there is no need to disconnect the Profibus.

All active electronic parts, like bus controller for example, are integrated inside the housing and not inside the cover, therefore an **excellent EMC characteristics is guaranteed**.

The required GSD files for configuration as well as type-files for older controls are included in delivery.

We also manufacture **ROBUST-ENCODER-SYSTEMS AWG/AWS** with stainless steel housing. They are especially designed for applications under rough environmental conditions like heavy machinery industry, off-shore applications, sluice construction, outdoor cranes, chemical industry and food industry. They are also suitable for radiation areas and under conditions with high shaft load or vibration and shock. Operation temperature range can be expanded up to +200° Celsius using water or pressure air cooling or by using heating up to -40° Celsius. All common interfaces, like Profibus, CANbus, are available for the ROBUST-ENCODER-SYSTEMS.

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