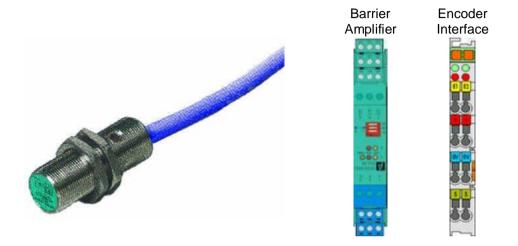


# PUMP STROKES (inductive)



## **Inductive Proximity Switch for Counting Pump Strokes**

- Pump strokes (pump #1 to n)
- Total pump strokes
- Accumulated pump strokes
- Pump volume (pump #1 to n)
- Total pump volume
- Lag time
- Flow IN

# **Parameter Specifications**

- Measuring range: Max. 5000 pulses/min
- System accuracy: -/-
- System resolution: 1 pulse (1 stroke)



### **Principle of Operation**

An inductive proximity switch attached to the mud pump is tripped by the action of the piston rod. Each pump stroke produces one pulse, which is registered by the evaluation electronic on timebased intervals.

#### Maintenance

Once the system is set up and calibrated, generally no maintenance will be required.

Visual routine checks (daily); check the sensor positioning weekly, readjust if necessary.

#### **Data Processing**

The powerful DMS software records, visualizes and displays data at different locations on the well site.

The DMS supports the setting of individual alarms for "High" and "Low" limits.

### **Technical Specifications**

- Type or model
- Certified for hazardous area
- Certificate of conformity
- Operating temperature range
- Supply voltage
- Installation point

# SENSOR

Inductive proximity switch Intrinsically safe to EEx ia IIC T6 PTB No. Ex-83/2022X -25 °C ... +100 °C 8 V DC

### At the pur

- Type or model
- Certificate of conformity
- Signal output
- Supply voltage
- Bus System:
- Installation point

At the pump crankcase close to the piston rod

#### Frequency / Current Converter Isolating amplifier – inputs EEx ia IIC PTB No. Ex-81/2065X 4 – 20 mA 24 V DC Not applicable

Ex-Barrier Amplifier with BUS System Barrier Amplifier EEx ia IIC TÜV 99 ATEX 1499 X 4 – 20 mA 24 V DC Field bus independent connectors 9-inch frame (DMS rack)

Logging unit; plugged into 19-inch frame (DMS rack)