

TITLE: ROTARY or TOP DRIVE SENSOR SYSTEM**DEPARTMENT: TECHNICAL SUPPORT****DESCRIPTION:**

A Proximity Switch used in conjunction with magnets placed on the Kelly or Top Drive System. Measures RPM. From calculations within the DLS software; Total RPM, Rotating Time, etc may be calculated.

**A. Standard Unit Specifications.**

BRAND: Pepperl + Fuchs
MODEL: NCN30+U1+NO
SENSOR TYPE: Discrete Inductive NAMUR-type Proximity Sensor
INSTALLATION LOCATION: Pump
OPERATING DISTANCE: 30 mm (24.3 mm Assured)
SWITCHING FREQUENCY: 150 Hz (Max)
OPERATING TEMPERATURE: -25°C to +100°C (-13°F to 212°F)
APPROVALS/CERTIFICATION: Factory Mutual (FM):
Class I, Division 1, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class III, Division 1 or
Class I, Zone 0, Groups IIC T6 (Ta = 60°C)
EEx ia IIC, EEx ib, IIC
OUTPUT: Chart Recorder, DLS System, Digital Monitors

APPROVAL:Dept. Supervisor : VICTOR SAETDate: 22nd July 2002Technical Committee : ALAN MORRISONDate: 22nd July 2002