

HLR 350-10 Sand Probe Electric Switch



The HLR 350-10 Sand Probe is a Single Pole Double Throw (SPDT), Electric Switch assembly designed to operate in conjunction with shutdown controls and alarm circuits. In the shelf status (Sand Probe Element sealed or with no pressure applied), electrical power is provided through the Normally Closed contact (Red wire). Once the Sand Probe Element is penetrated, media or process pressure will be applied at the Sand Probe's base to switch electrical power from the Normally Closed contact to the Normally Open contact (Blue wire). The use of SPDT electrical switch contacts, allows the assembly to be wired for either a gain or loss of electrical output upon actuation, as desired. The exhausting or removal of applied pressure at the Sand Probe's base, will allow the SPDT contacts to be automatically reset.

The switch is preset to 100 PSI to compensate for thermal expansion that occurs within sand probe elements on high temperature wells.

The HLR 350-10 Electric Sand Probe Switch can be mounted directly on the

sand probe element at the process connection or mounted to a panel bulkhead.

Design Features:

1. 4.875 OAL x 1.250 OD
2. Sensor Port: 316 SS
3. Seals: Viton
4. Working Pressure: 10,000 PSI Max.
5. Proof Pressure: 15,000 PSI

Electrical Form:

Class I, Divisions 1 & 2, Groups A, B, C, D
Class II, Divisions 1 & 2, Groups E, F, G

CENELEC flame proof construction per Eex d IIC T6

Enclosure Classification: NEMA 4X, 7, 9; IP66

Switch Output:

SPDT - Single Pole Double Throw

Electrical Ratings:

5 AMP @ 125/250 VAC

3 AMP Inductive @ 24 VDC

Electrical Connection: 1/2" - 14 NPT Male Conduit

Wire: 4-PVC insulated 18 AWG leads 72" long.

