

# 2SPD16R-STK SmartProbe Sensor Submittal



Simplex Pump Down with High Alarm  
and Common Relay

## SENSOR APPROVAL SHEET

CUSTOMER	<b>SENSOR WIRE:</b> Standard wire length is 20ft. Minimum wire length is 5ft. 18AWG Sensor Wire
PO#	<b>INPUT POWER WIRES:</b> RED.....+VDC BLACK.....GND BROWN.....INPUT (V)
SO#	<b>RELAY SWITCH OUTPUT WIRES:</b> WHITE.....FILL START/STOP GREEN.....HIGH ALARM
SHIP DATE	<b>Specify DC Voltage Requirement</b> <input type="checkbox"/> 12VDC <input type="checkbox"/> 24VDC
QUANTITY	<b>Sequence of Operation (SOO):</b> <b>Function 1: High Alarm</b> When the water level contacts the HIGH ALARM ring, GREEN output goes ACTIVE, applying INPUT(V). When the water level falls below the HIGH ALARM ring, GREEN output goes INACTIVE, removing INPUT(V). <b>Function 2: Pump Start/Stop</b> When the water level contacts the PUMP START ring, WHITE output goes ACTIVE, applying INPUT(V). When the water level falls below the PUMP STOP ring, WHITE output goes INACTIVE, removing INPUT(V). The WHITE output remains INACTIVE until the water level contacts the PUMP START ring.
WIRE LENGTH (ft)	<b>Components</b> 2" PVC Slip Fitting cup. 1" Schedule 40 PVC Pipe with 3/4" passivated Stainless Steel rings (1" overall ring assembly). 18AWG Sensor Wire.

User Provided DC Power Supply

RELAY SWITCH

OUTPUTS INPUT (V)

BLACK V- RED V+ WHITE GREEN BROWN

3/16" 1 5/16" 2" PVC Slip Plug

9" Minimum Head-space

HIGH ALARM PUMP START PUMP STOP REFERENCE

OAL D C B A

Each Relay Output is rated: 1.0 Amp @ 30VDC

**Determining Ring Placement**  
Measurement B is from the bottom of the ring to the bottom of the sensor stick. 3-1/2" minimum between rings.  
The Over All Length is measured from the bottom of the sensor cup to the bottom of the sensor stick.

SENSOR		CUSTOM LENGTH
OAL		D + 9"
HIGH ALARM	D	
PUMP START	C	
PUMP STOP	B	
REFERENCE	A	3.5"

Name:

Company:

Signature:

Date:

Signature is required to release product to production

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