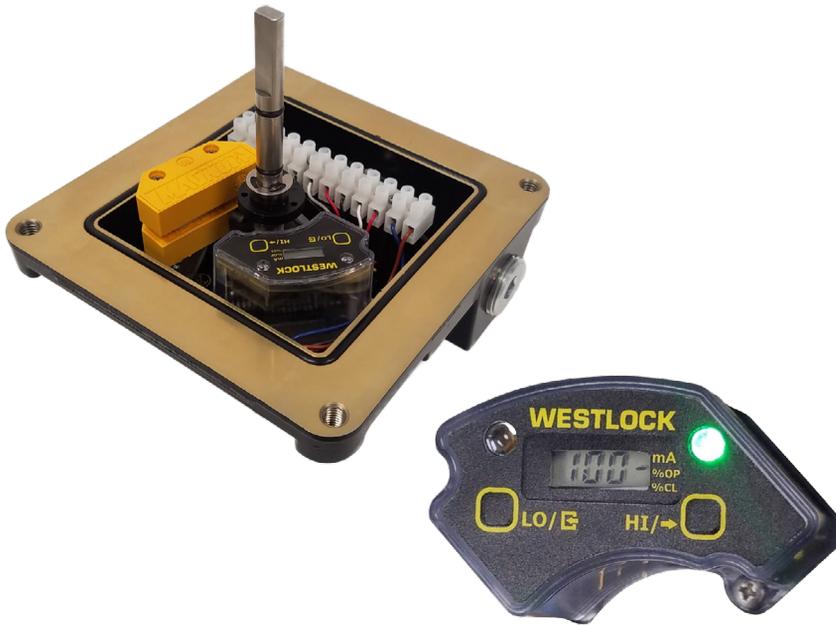


DS POSITION TRANSMITTER

A 4-20 mA current transmitter featuring a gearless through shaft potentiometer and easy 2-button calibration with local LCD and LEDs. Designed to be integrated into a wide range of Westlock products lines.



FEATURES

- Precision analog position transmitter.
- Operates with any voltage from 9 to 30 volts DC.
- Reverse polarity and transient protected.
- Accommodates long cable runs and multiple receivers.
- Encapsulation of electrical components improves performance in harsh environments.
- Available with proximity switches, inductive sensors, or mechanical switches.
- Simple push-button calibration
- Bi-colored LEDs
- LCD 3.5 Digit display showing position open
- Automatic detection of rotation, clockwise and counterclockwise
- Potentiometer Rotation up to 30°-200°
- Global Intrinsically Safe Certification

$$\text{Maximum Loop Resistance*} = \frac{\text{Power Supply Voltage} - 9 \text{ V DC**}}{0.0021 \text{ Amps}}$$

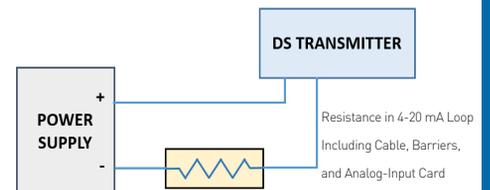
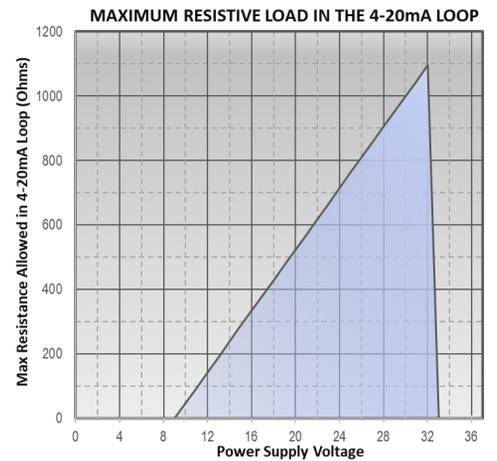
TECHNICAL DATA

Potentiometer Option

Average position repeatability	0.5% full scale
Average hysteresis	1% of full scale
Average position resolution	0.5% full scale
Average linearity	0.5%
Operating temperature	-40°C to +80°C
Ambient temperature	-40°C to +80°C
Min/Max Rotation	30° - 200°
Transmitter update rate	20 ms
Power supply range	9 V DC to 30 V DC
Operating temperature range	-40°F to +185°F [-40°C to +85°C]
Recommended power supply	24 V DC
Output signal range	4 to 20 mA
Load impedance	0 to 950 ohms at 24 V DC
Power supply	Output signal changes 0.018% when the supply voltage is varied between 5 and 33 V DC

Intrinsically Safe Parameters

Intrinsically safe parameters for loop output
 Entity parameters
 U_i = 30 V
 I_i = 100 mA
 P_i = 750 mW
 C_i = 5 nF
 L_i = 10 µH



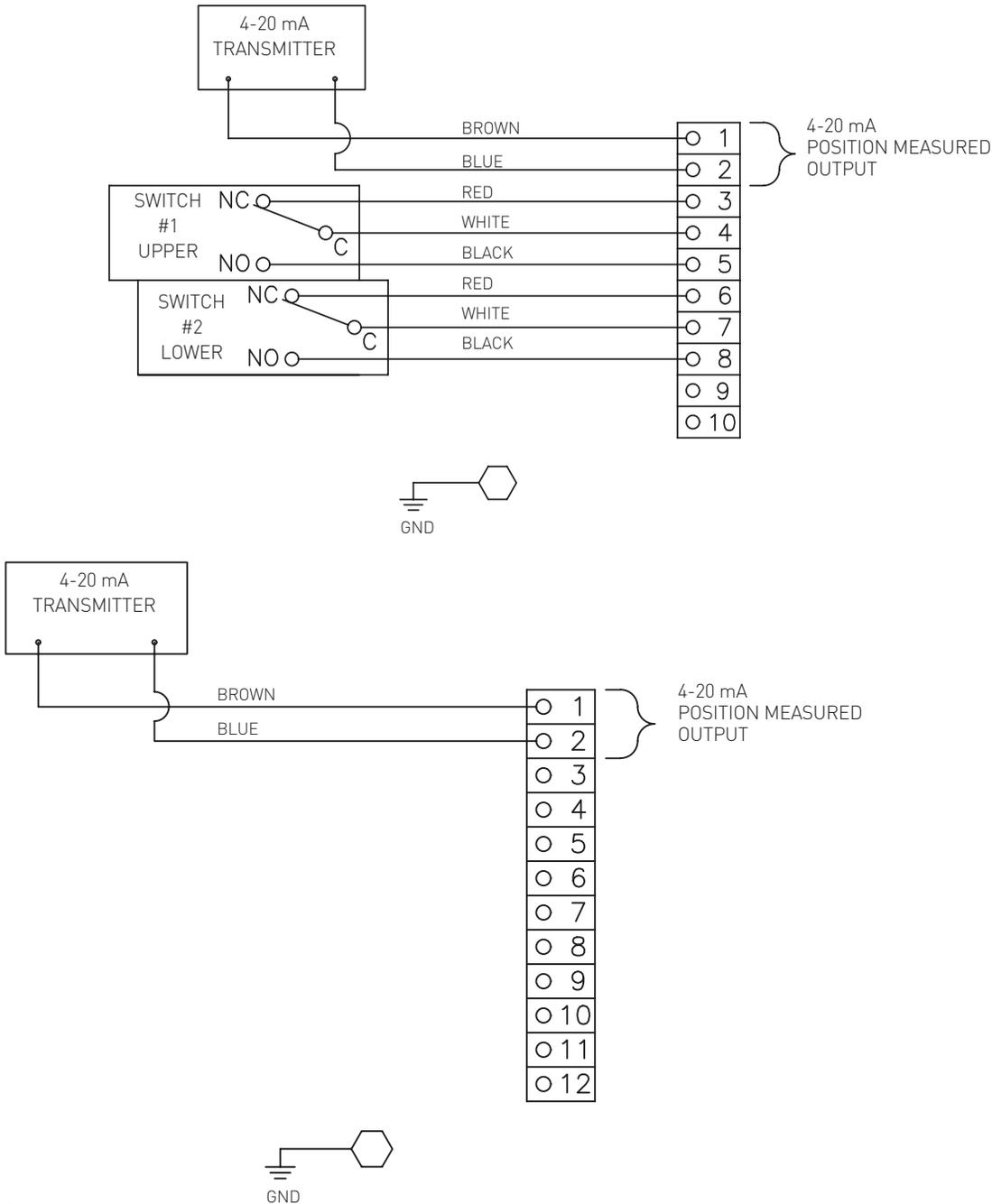
GRAPH NOTES

*For a 24 V DC power supply and 700 Ohms in the 4-20 mA Loop, at 21 mA current draw that would be 700 Ohms x 0.021 A = 14.7 Volts across the loop, which would leave 24V - 14.7 V = 9.3 V across the transmitter.

**Minimum voltage to power transmitter

DS POSITION TRANSMITTER

TYPICAL WIRING DIAGRAM



Translations

Where translated the copy is taken from the original English document TD10053-EN as checked by the relevant notified certification body and therefore the original English document will prevail. No rights or liability can be derived from any translation.

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