

ALLIANCE SENSORS GROUP

A DIVISION OF H.G. SCHAEVITZ LLC

GHS-19 and LRS-18 LVIT Wiring and SenSet™ Instructions



Standard I/O connections for GHS-19 or LRS-18 LVIT sensors with a 4-conductor cable or 6-pin connector are on the back below the illustration for SenSet™ field calibration of GHS-19 or LRS-18 LVIT position sensors.

Please note that your GHS-19 or LRS-18 LVIT sensor was calibrated at the factory to a specified measuring range. You may choose to retain this calibration if it fits your purpose, or you may choose to field recalibrate your sensor using the SenSet™ feature if you desire a more precise match of the sensor's electrical output to your mechanical device's range of movement. The Linear Position Sensor's SenSet feature allows the installer to very simply and quickly match the full scale electrical output of a sensor to the actual range of mechanical movement of the device in which the sensor is installed or to which it is attached. This type of activity is usually referred to as a field calibration. To proceed with a SenSet-based field calibration, follow these instructions:

1. Install the position sensor into your mechanical device, leaving the sensor's I/Os unconnected.
2. Connect the black wire or *ground* terminal to power ground (-), and then connect the correct DC power input (+) to the sensor via the red wire or *+ power input* terminal.
3. To begin the SenSet process for voltage output, connect a DC voltmeter having the appropriate range with its plus (+) test lead connected to the green wire or *voltage output* terminal, and the meter's (-) test lead connected to the black wire or *ground* terminal.
4. To begin the SenSet™ process for current loop output, connect a DC milliammeter having an appropriate range with its plus (+) test lead connected to the green wire or *current output* terminal and its minus (-) test lead connected to the loop load resistor, typically 250 or 500 Ohms. Connect the other end of the loop load resistor to the black wire or *ground* terminal.
5. Extend the mechanical device to the end point of its full range of motion; then connect the white (*cal*) wire or *cal* terminal to the black wire or *ground* terminal for at least 3 seconds then remove white wire.
6. Fully retract the mechanical device to its zero (start) position; then connect the white (*cal*) wire or *cal* terminal to the black wire or *ground* terminal for at least 3 seconds then remove the white wire.
7. The sensor's output is now calibrated to the end points of your mechanical device's range of motion. The SenSet procedure can be redone without limit, but its operational range is limited to 20% of specified full range, both at zero and at full range. (0 to 20% around zero, and 80 to 100% around full range) Note that both ends of the sensor's range must be calibrated using the SenSet field programmability procedure for the process to take effect.
8. When the SenSet™ process is completed, disconnect the voltmeter, or, in the case of current loop output, disconnect the milliammeter and reconnect the loop load to the green or *current output* terminal. If you are using a leaded or cable output sensor, you may wish to trim and insulate the end of the white (*cal*) wire to avoid any inadvertent recalibration.

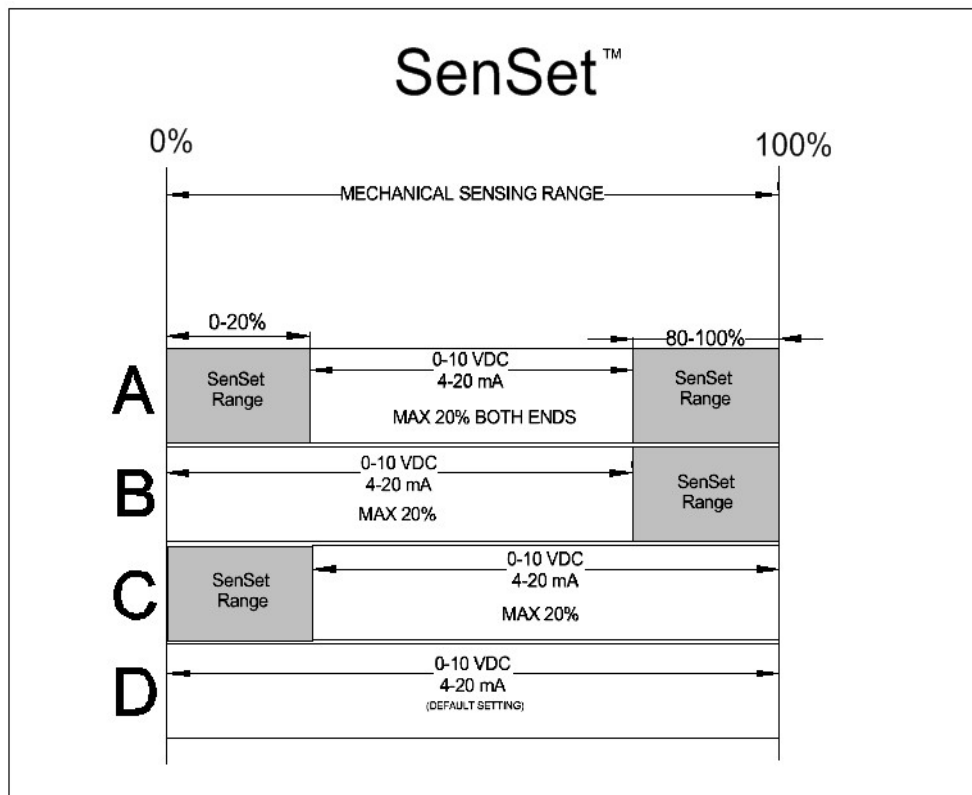
Questions? Contact Technical Support ASGTech@alliancesensors.com or call 856-727-0250

102 Commerce Dr. Unit 8 Moorestown, NJ 08057 Ph: 001-856-727-0250

E-mail Sales@alliancesensors.com www.alliancesensors.com

ALLIANCE SENSORS GROUP

A DIVISION OF H.G. SCHAEVITZ LLC



GHS-19 and LRS-19 series LVIT I/O Wiring Pinout / Color Code

Input / Output	PT-02-10-6P	4-Wire Cable
+ DC Power Input	Pin E	Red
Ground	Pin D	Black
Voltage Output	Pin A	Green
Current Output (<i>see note below</i>)	Pin A	Green
SenSet™ (Cal)	Pin B	White
No Connection	Pin C, F	

Analog I/Os

0 - 10 V DC output with 12-30 V DC input (35 mA max)

4 - 20 mA, 3-wire sourcing with 18-30 V DC input (60 mA max)

Do not connect 4-20 mA output to a 2-wire loop powered system

102 Commerce Dr. Unit 8 Moorestown, NJ 08057 Ph: 001-856-727-0250

E-mail Sales@alliancesensors.com

www.alliancesensors.com