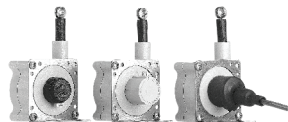


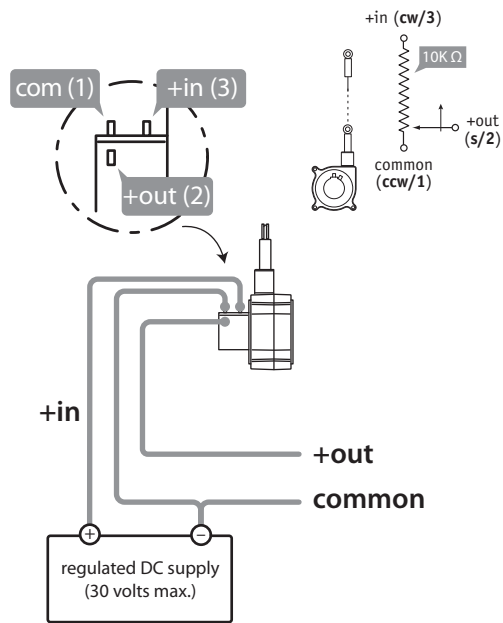
# S Series Installation Guide

includes: SP1, SP2, SP3 and SE1



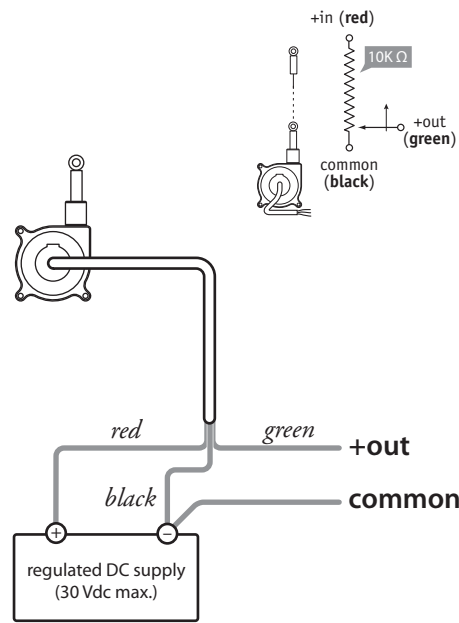
## SP1 - voltage divider - w/ solder terminals

SP1-4, SP1-12, SP1-25, SP1-50



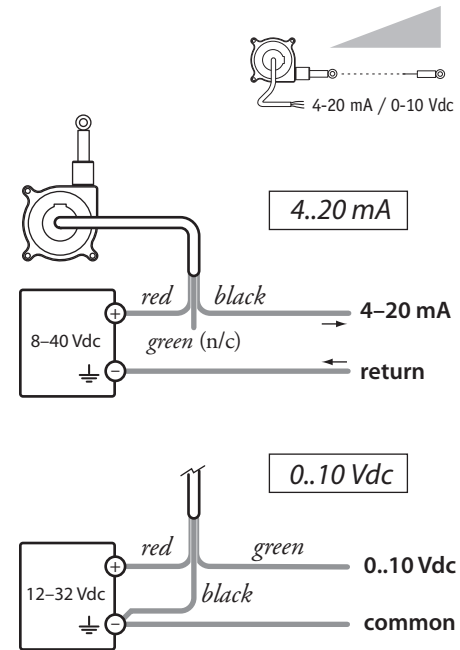
## SP2 - voltage divider - w/ electrical cable

SP2-4, SP2-12, SP2-25, SP2-50



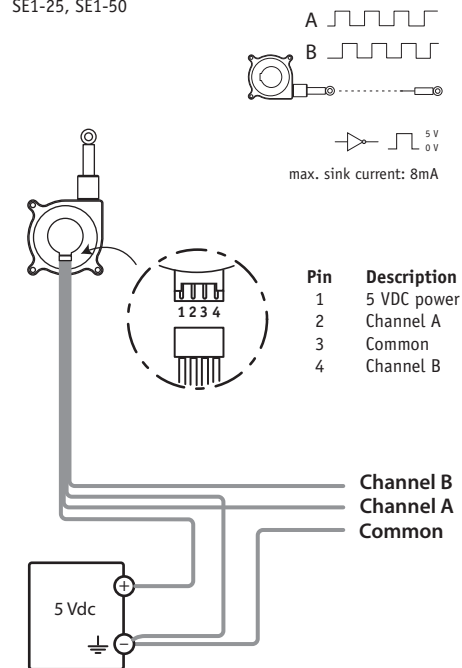
## SP3 - user selectable output - 4..20mA • 0..10Vdc

SP3-4, SP3-12, SP3-25, SP3-50



## SE1 - incremental encoder - w/ 12-inch leads and sip connector

SE1-25, SE1-50



### Mechanical

Enclosure: polycarbonate  
Measuring Cable: .019-in. dia. nylon-coated stainless  
Measuring Cable Tension: 7 oz.  
Max Cable Acceleration: 15 g

### SP1 / SP2

Stroke Range Options: 4.75, 12.5, 25 and 50 inches  
Accuracy  
4.75-inch range: 1% fs.  
all others: .25% fs.  
Repeatability: ±.05% fs.  
Input Resistance: 10K ohms, ±10%  
Power Rating: 2 W at 70°F (21°C)  
Operating Temp: 0-160°F (-18 to 71°C)  
SP1 Specs: [celesco.com/\\_datasheets/sp1.pdf](http://celesco.com/_datasheets/sp1.pdf)  
SP2 Specs: [celesco.com/\\_datasheets/sp2.pdf](http://celesco.com/_datasheets/sp2.pdf)

### SP3

Stroke Range Options: 4.75, 12.5, 25 and 50 inches  
Accuracy  
4.75-inch range: 1% fs.  
all others: .25% fs.  
Repeatability: ±.05% fs.  
Input Voltage (0-10 Vdc option): 12-32 Vdc  
Input Voltage (4-20 mA option): 8-40 Vdc  
Operating Temp: 0-160°F (-18 to 71°C)  
SP3 Specs: [celesco.com/\\_datasheets/sp3.pdf](http://celesco.com/_datasheets/sp3.pdf)

### SE1

Stroke Range Options: 25 and 50 inches  
Output Signal: incremental encoder  
Resolution: 56.40 ± .32 pulses per inch  
Accuracy: ±.050 in.  
Repeatability: ±.025 in.  
Input Voltage: 5 Vdc  
Input Current: 50 mA max.  
Operating Temp: 14-185°F (-10 to 85°C)  
SE1 Specs: [celesco.com/\\_datasheets/se1.pdf](http://celesco.com/_datasheets/se1.pdf)

version: 1.0 / item no: SP-MANUAL

