



SK1 Cable Actuated Sensor Voltage Divider Output Signal

The SK1 is a perfect solution for applications ranging from mobile construction equipment to hydraulic lift tables and anything else in between. Available in both 250 and 400-inch stroke ranges, this model offers the ultimate ease-of-use, compact design and user flexibility. Need to mount it upside down? Simply rotate its stainless mounting bracket to where you want it. Need the electrical connector to point in a different direction? Just rotate the rear cover to point the connector to the desired direction.

The SK1 is manufactured with a precision high-cycle plastic hybrid potentiometer and durable spring-loaded stainless steel measuring cable to deliver an accurate reliable voltage divider position feedback signal over the entire stroke.

FEATURES

- Flexibility Every unit offers linear position up to 400" (10m) providing flexibility to work across a wide range of aerial applications. This off-theshelf series offers a wide selection of industry standard output signals (4-20mA, 0-10Vdc, CANOpen and J1939 CANbus).
- Ease of use A compact design, a stainless-steel mounting bracket for multiple installation options and an easily-adjustable measuring cable orientation make this sensor easy to install and manage.
- Superior engineering TE provides engineering partnership to customize for specific applications. There is also an option to have two sensors elements in the same package with no additional space requirement. This provides fail-safe security for aerial applications.

APPLICATIONS

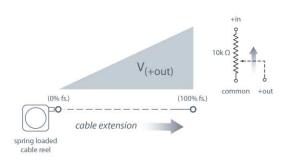
Accurate measurement in customized applications industrial and commercial transportation like:

- Fork lifts
- Telescopic arms
- Boom lifts
- Scissor lifts

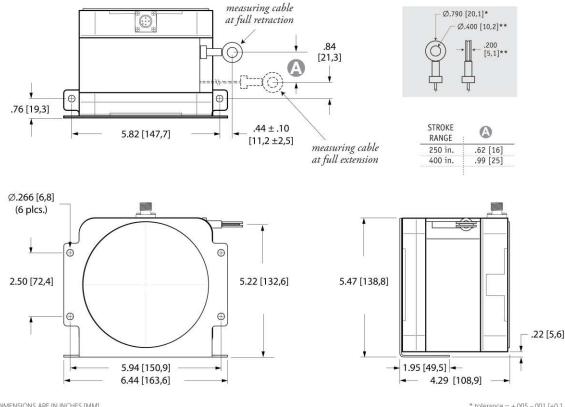
Linear Position to 400 inches (10 m) Compact Design • Simple to Install User Adjustable Measuring Cable Orientation

Specifications

| Stroke Range Options | 250 inches (6.4 m), 400 inches (10.2 m) |
|--|---|
| Output Signal | voltage divider (potentiometric) |
| Accuracy | .35% FS. |
| Repeatability | .05% FS. |
| Resolution | essentially infinite |
| Measuring Cable | .031-inch dia. bare stainless steel |
| Maximum Cable Velocity | 60 inches per second |
| Maximum Cable Acceleration | 5 g |
| Measuring Cable Tension | 23 oz. (6,4 N) ±40% |
| Sensor | plastic-hybrid precision potentiometer |
| Input Resistance | 10K ohms, ±10% |
| Power Rating, Watts | 2.0 at 70°F |
| Recommended Maximum Input Voltage | 30 V (AC/DC) |
| Output Signal Change Over Full Stroke Range | 94% ±4% of V(+in) |
| Cycle Life | ≥ 250,000 |
| Electrical Connection | 4-pin M12 connector, mating plug included |
| Enclosure | glass-filled polycarbonate |
| Environmental | IP67 |
| Operating Temperature | -40° to 185° F (-40° to 85° C) |



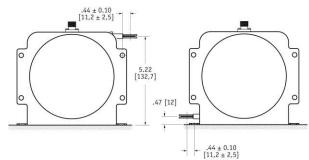
Outline Drawing



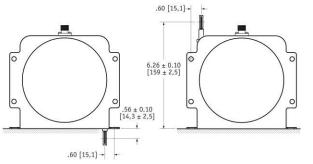
DIMENSIONS ARE IN INCHES [MM] tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

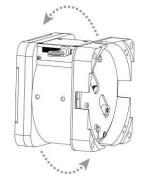
Mounting Options

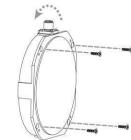
* tolerance = +.005 -.001 [+0,1 -0,0] ** tolerance = +.005 -.005 [+0,1 -0,1]











To change cable exit direction:

simply remove the 4 bracket mounting screws and rotate sensor body to desired direction.

To change electrical connector

orientation: remove the 4 rear screws and carefully remove the rear cover and rotate cover.