

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

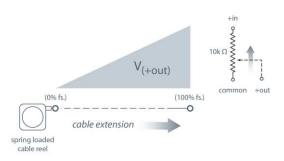
Accurate measurement in customized applications industrial and commercial transportation like:

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

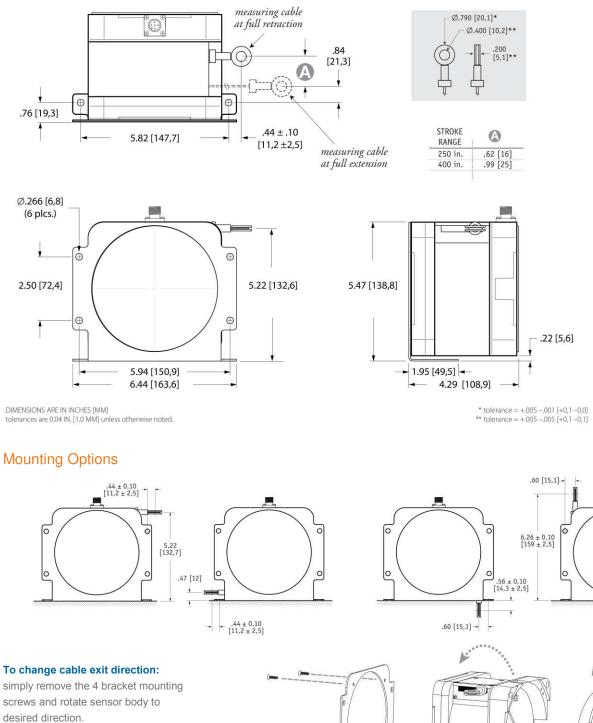
Linear Position to 400 inches (10 m) Compact Design • Simple to Install User Adjustable Measuring Cable Orientation

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



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GuangZhou TaiDaXin Measurement And Control Technology Co.,Ltd.

To change electrical connector orientation: remove the 4 rear screws and carefully remove the rear cover

and rotate cover.

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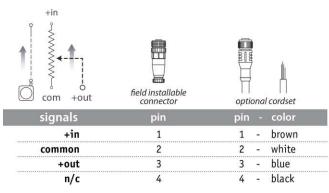
Ordering Information

	Part Number	full stroke range	accuracy	max. acceleration	measuring cable tension (± 40%)
	SK1-250-3	250 in (6.4 m)	.35%	5 g	23 oz. (6,4 N)
	SK1-400-3	400 in (10.2 m)	.35%	5 g	23 oz. (6,4N)

includes mounting bracket & mating connector.

Optional Cordsets	Part Number	length	wire size	connector
	9036810-0040	13 ft (4 m)	22 AWG (.34mm ²)	straight 4-pin M12
	9036810-0041	13 ft (4 m)	22 AWG (.34mm ²)	90° 4-pin M12

Electrical Connection



field installable connector



contact view

customer supplied electrical cable (.25 in [6 mm] max. dia.)

