

SKD Cable Actuated Sensor User Selectable 4..20mA / 0..10Vdc Output

Available in both 250 and 400-inch stroke ranges, the SKD linear position sensor is a perfect solution for applications ranging from mobile construction equipment to hydraulic lift tables and anything else in between. The SKD offers compact design, ease of use and the utmost in flexibility. Every unit offers the customer a user-selectable 4-20 mA or 0-10VDC output signal option, an easily adjustable stainless-steel mounting bracket for multiple installation options and the ability to change the direction of the electrical connector to accommodate the user's wiring needs.

Our unique electronic circuitry and an extremely durable spring-loaded stainless-steel measuring cable deliver an accurate reliable "absolute" 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:

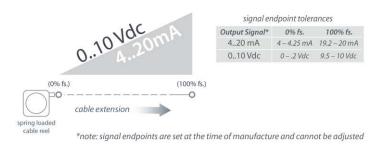
- Fork lifts
- Telescopic arms
- Boom lifts
- Scissor lifts

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

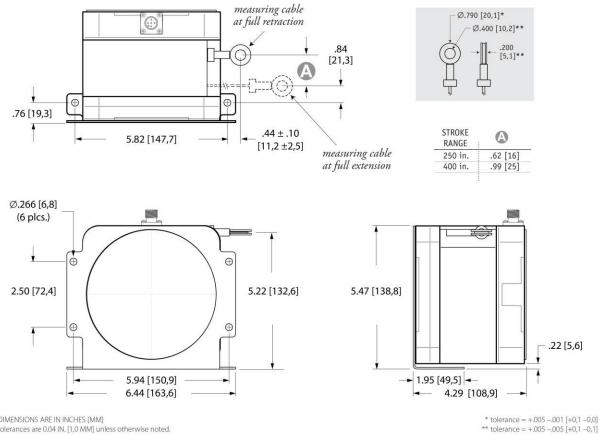
Specifications

Stroke Range Options	250 inches (6.4 m), 400 inches (10.2 m)
User Selectable Output Signal	420mA (2-wire) / 010 Vdc
Input Voltage, 420mA Option	8-40 VDC
Input Voltage, 010 VDC Option	12-32 VDC
Accuracy	0.35% FS.
Repeatability	0.05% 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
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)

Output Signal

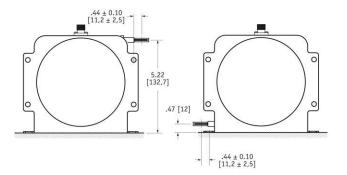


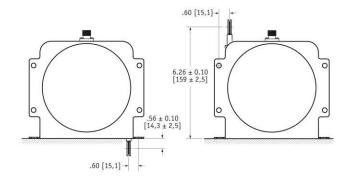
Outline Drawing



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

Mounting Options





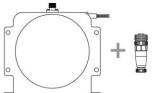
To change cable exit direction:

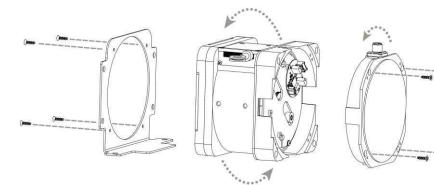
simply remove the 4 bracket mounting screws and rotate sensor body to desired direction.

To change electrical connector

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

Ordering Information





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

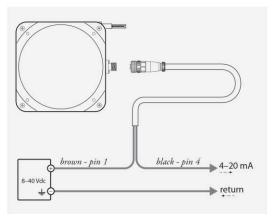
includes mounting bracket & mating connector.

Optional Cordsets	Part Number	length	wire size	connector
	9036810-0040	13 ft (4 m)	22 AWG (.34mm²)	straight 4-pin M12
	9036810-0041	13 ft (4 m)	22 AWG (.34mm²)	90° 4-pin M12

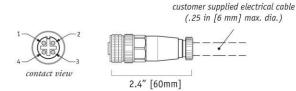
Electrical Connection

Output	Signals	field installable connector	optional cordset	
010Vdc	420mA	pin	pin - color	
1232 Vdc	840 Vdc	1	1 - brown	
010 Vdc	n/c	2	2 - white	
n/c	n/c	3	3 - blue	
common	420 mA	4	4 - black	

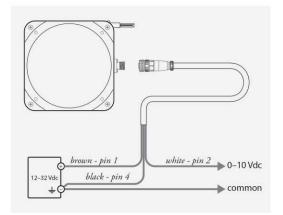
4...20 mA Signal Connections



field installable connector



0...10 Vdc Signal Connections



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