



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 4...20mA (2-wire) / 0...10 Vdc

Signal

Input Voltage, 4...20mA 8-40 VDC

Option

Input Voltage, 0...10 VDC 12-32 VDC

Option

0.35% FS. **Accuracy** 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

23 oz. (6,4 N) ±40%

Tension 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

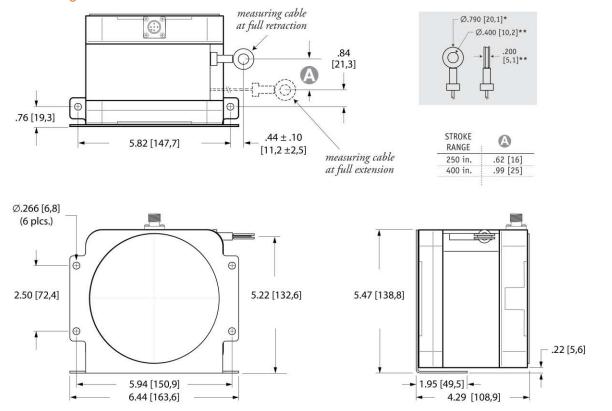


signal endpoint tolerances					
Output Signal*	nal* 0% fs. 10				
420 mA	4 - 4.25 mA	19.2 – 20 mA			
010 Vdc	02 Vdc	9.5 – 10 Vdc			



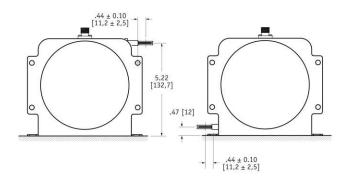
*note: signal endpoints are set at the time of manufacture and cannot be adjusted

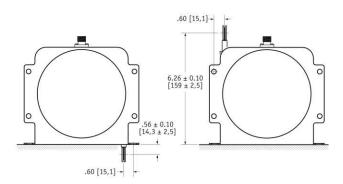
Outline Drawing



Mounting Options

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





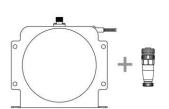
* tolerance = +.005 -.001 [+0,1 -0,0] ** tolerance = +.005 -.005 [+0,1 -0,1]

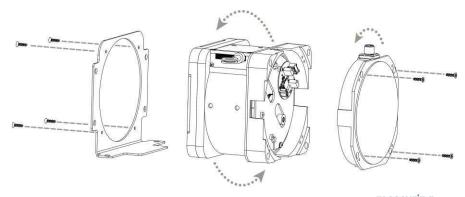
To change cable exit direction:

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.

Ordering Information



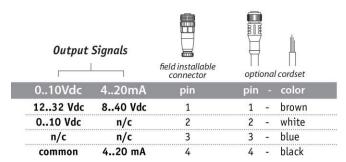


Part Number	full stroke range	accuracy	max. acceleration	measuring cable tension (± 40%)	
SKD-250-3	250 in (6.4 m)	.35%	5 g	23 oz. (6,4 N)	
SKD-400-3	400 in (10.2 m)	.35%	5 g	23 oz. (6,4N)	

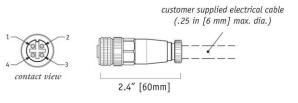
includes mounting bracket & mating connector.

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

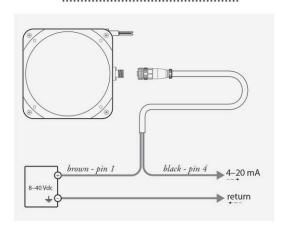
Electrical Connection



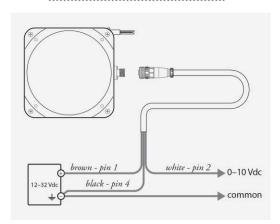
field installable connector



4...20 mA Signal Connections



0...10 Vdc Signal Connections



NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Phone: +1-800-522-6752 Email: customercare.hmpt@te.com

EUROPE

MEAS Deutschland GmbH (Europe) a TE Connectivity Company Phone: +31 73 624 6999 Email: customercare.dtmd@te.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Phone: +86-400-820-6015 Email: customercare.shzn@te.com

TE.com/sensors

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