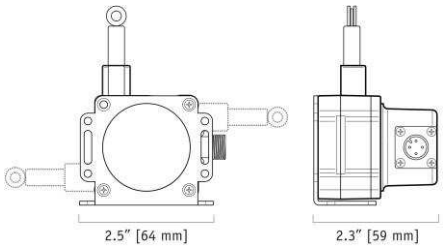
te.com



SPD

Compact, High-Performance String Pot

Dual Output to 50”

Comes with Both 4 - 20 mA and 0 - 10V Output

Rugged IP67 Polycarbonate Enclosure

Mounting Bracket & Sensor Cover Adjusts for Easy Installation

This compact stringpot provides the ultimate in ease-of-use and flexibility. This sensor fits in small spaces, doesn’t need perfect alignment, mounts in just about any direction imaginable and has a unique circuit that lets the user choose 4-20mA or 0-10 VDC output on the fly.

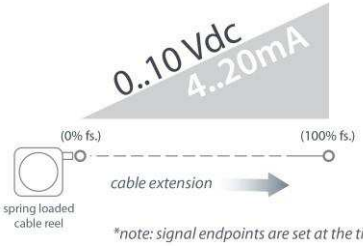
The SPD comes in 4 different stroke ranges up to 50 inches and is constructed with a rugged polycarbonate body sealed against IP67 (wet) environments for both indoor and outdoor applications. Every unit ships with a stainless steel mounting bracket that lets the user easily point the measuring cable in the direction needed.

High value and economical price makes this sensor the perfect choice for the OEM and single-piece user alike. Customer specific designs available for the OEM, please contact factory for more information.

SPECIFICATIONS

Free Stroke Range Options	0-4.75 to 0-50 inches
User Selectable Output Signal	4 - 20 mA (2-wire) / 0 - 10 VDC
Input Voltage, 4…20 mA option	8-40 VDC
Input Voltage, 0…10 Vdc option	12-32 VDC
Accuracy	See ordering information
Repeatability	.05% FS.
Resolution	essentially infinite
Measuring Cable	.019-inch dia. nylon-coated stainless steel
Sensor	Plastic-hybrid precision potentiometer
Cycle Life	See ordering information
Electrical Connection	M12 connector (mating plug included)
Enclosure	Glass-filled polycarbonate
Environmental	IP 67
Operating Temperature	-40° to 160° F (-40° to 70° C)
Weight (includes sensor, bracket and connector)	.4 lbs (.19 kg)

Output Signal:

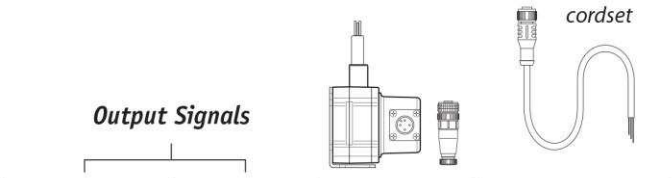


signal endpoint tolerances

*Output Signal**	*0% fs.*	*100% fs.*
4..20 mA	*4 – 4.25 mA*	*19.2 – 20 mA*
0..10 Vdc	*0 – .2 Vdc*	*9.5 – 10 Vdc*

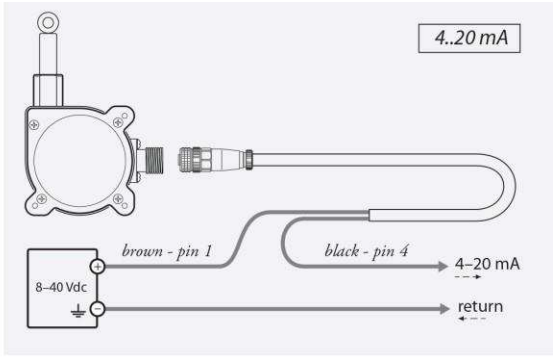
**note: signal endpoints are set at the time of manufacture and cannot be adjusted*

Electrical Connection:

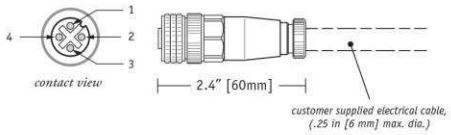


Output Signals

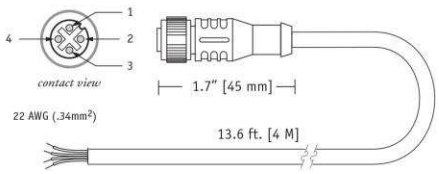
0...10 Vdc	4...20 mA	pin	pin - colorcode
12...32 Vdc	8...40 Vdc	1	1 - brown
0...10 Vdc	n/c	2	2 - white
n/c	n/c	3	3 - blue
common	4...20 mA	4	4 - black

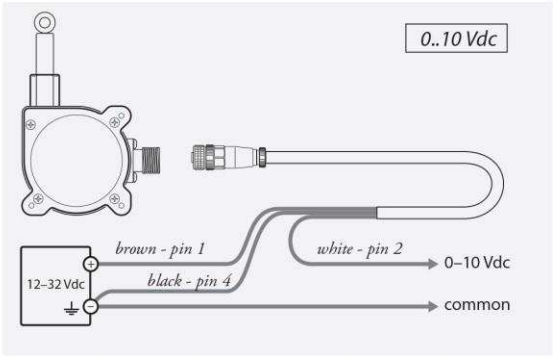


field installable connector (included)

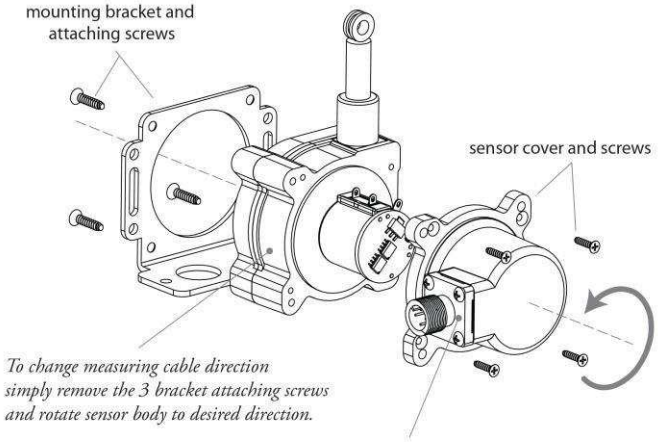


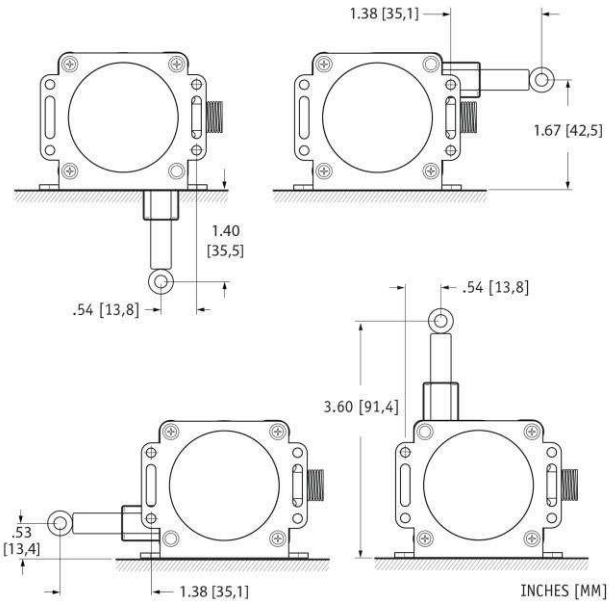
cordset, part no. 9036810-0040 (optional)



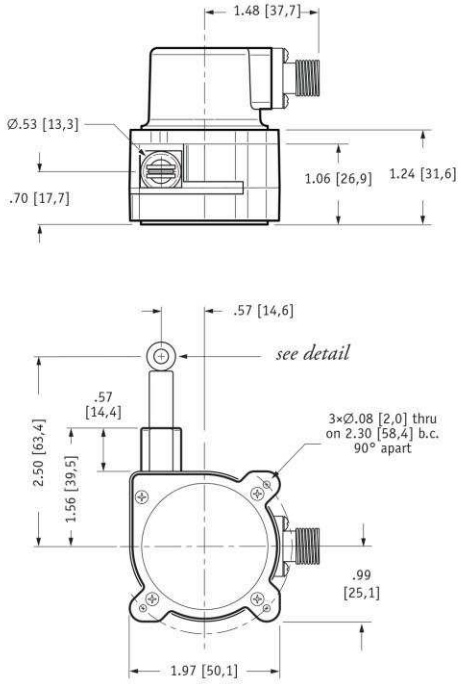


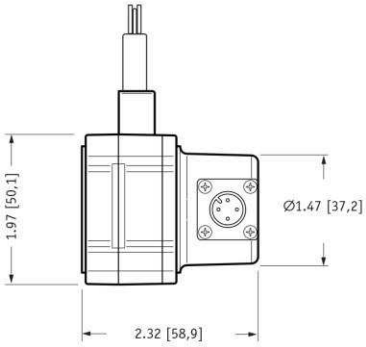
Mounting Options:



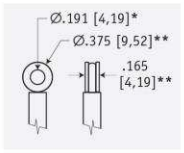


SPD-xx-3 w/o Mounting Bracket:

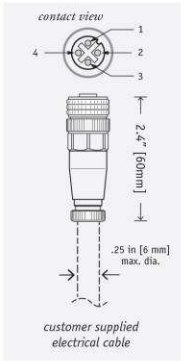




eyelet detail



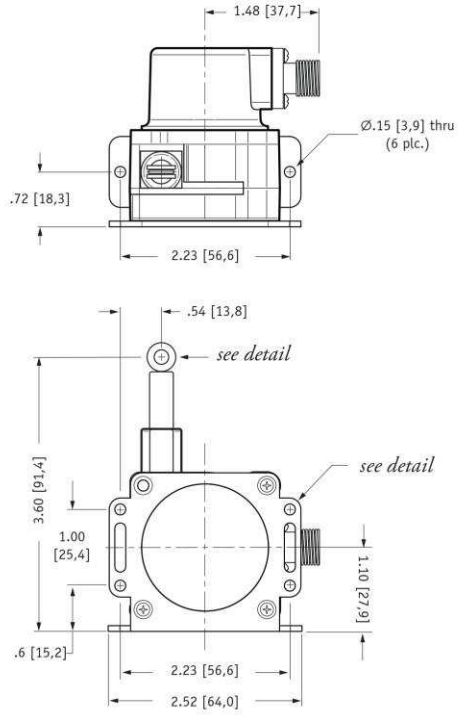
mating plug (included)

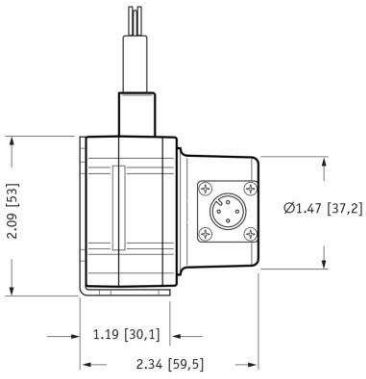


DIMENSIONS ARE IN INCHES [MM]
tolerances are 0.04 IN. [1,0 MM] unless otherwise noted.

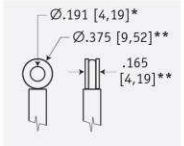
* tolerance = +.005 –.001 [+0,1 –0,0]
** tolerance = +.005 –.005 [+0,1 –0,1]

SPD-xx-3 w/ Mounting Bracket:

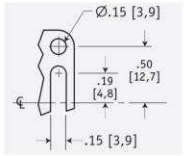




eyelet detail



bracket detail



DIMENSIONS ARE IN INCHES [MM]
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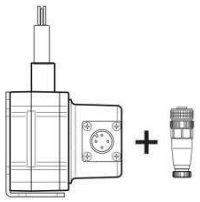
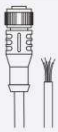
* tolerance = +.005 –.001 [+0,1 –0,0]
** tolerance = +.005 –.005 [+0,1 –0,1]

Ordering Information:



includes sensor, mounting bracket & mating connector.

Part Number	full stroke range	accuracy	max. acceleration	measuring cable tension (± 25%)	cycle life
SPD-4-3	4.75 in (120 mm)	1.00%	11 g	11.5 oz. (3,2 N)	2.5M
SPD-12-3	12.5 in (317 mm)	.25%	11 g	13.9 oz. (3,7 N)	500K
SPD-25-3	25 in (635 mm)	.25%	11 g	11.5 oz. (3,2 N)	500K
SPD-50-3	50 in (1270 mm)	.25%	11 g	11.5 oz. (3,2 N)	250K



4-pin M12 connector
13 ft (4 m)
22 AWG (.34mm²)

Optional Cordset

Part No.

9036810-0040 for short-run connections, an optional 13-ft. cordset with 4-pin M12 connector

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