



SE₁

Description

- Linear Position to 50 inches (1270 mm)
- Low-Cost, Long Life Rugged Polycarbonate Enclosure
- Free-Release Tolerant Measuring Cable
- In Stock for Quick Delivery!



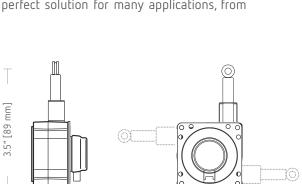
The SE1 is designed for tight spaces, high-cycle applications and generously allows cable misalignment. With a handy mounting bracket included, and 2 basic measurement ranges, the SE1 is a perfect solution for many applications, from light industrial to OEM.

COMPLETE SPECIFICATIONS

Full Stroke Range Options	0-25, 0-50 inches
Output Signal	incremental encoder (quadrature)
Accuracy	±0.050 inches
Repeatability	± 0.025 inches
Resolution	56.40 ±.32 pulses per inch
Measuring Cable	0.019-in. dia. nylon-coated stainless steel
Measuring Cable Tension	7 oz. (1,9 N) ±25%
Maximum Cable Acceleration	15 g
Enclosure Material	polycarbonate
Sensor	optical encoder
Cycle Life	1.1 million cycles
Enclosure	IP 50
Operating Temperature	14° to 185°F (-10° to 85°C)
Vibration	up to 10 g to 2000 Hz max.
Weight	5 oz. (w/o mounting bracket) max.

ELECTRICAL

Input Voltage	5 VDC
Input Current	50 mA max.
Output Driver	TTL compatible
Sink Current	8 mA max.
Electrical Connection	mating plug with 12-inch leads, included
Electrical Connector	Molex 53048-0410
Mating Plug	Molex 51021-0400 (shell), 50079-8100 (pins)



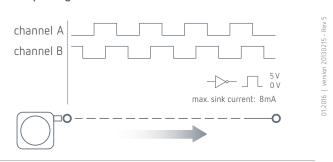
1.9" [48 mm]

Ordering information

1.9" [48

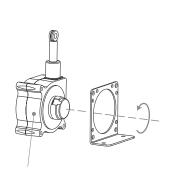
	Part No.	full stroke range	ассигасу	cycle life
includes sensor, mounting bracket & conn. w/12-inch leads	FDSE1-25	25 in (635 mm)	0.050 in.	1.1M cycles
	FDSE1-50	50 in (1270 mm)	0.050 in.	1.1M cycles

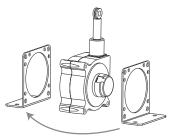
Output signal





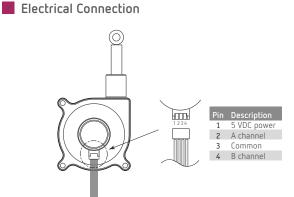
Mounting Options





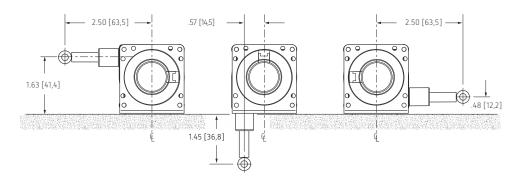
For added flexibilty, mounting bracket can

easily be switched to the opposite side.

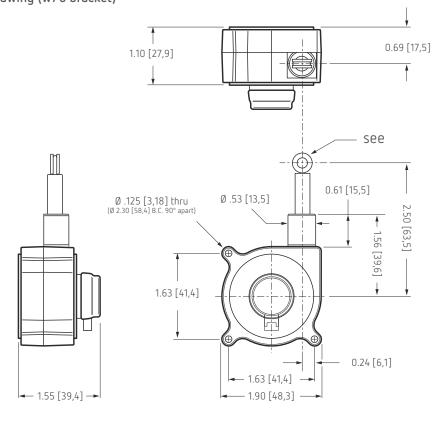


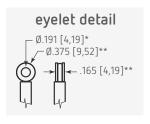
connector w/12-inch leads (included)

To change measuring cable direction simply remove the 3 bracket attaching screws and rotate sensor body to desired direction.



Outline Drawing (w/o bracket)



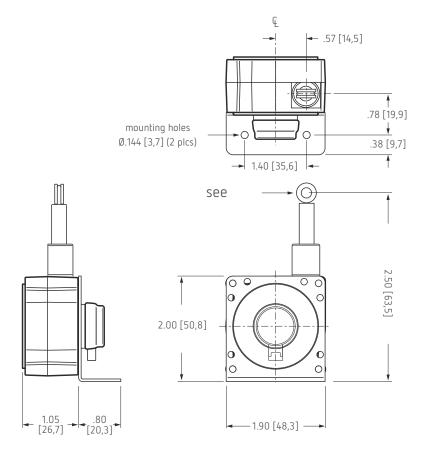


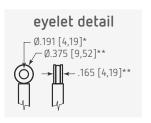
*tolerance = +.005 - .001 [+.13 - .03] **tolerance = +.005 - .005 [+.13 - .13]

INCHES [MM]



Outline Drawing (with bracket)





*tolerance = +.005 - .001 [+.13 - .03] **tolerance = +.005 - .005 [+.13 - .13]

INCHES [MM]