

## **Description:**

Suited for IP67 (wet) environments, the SGD provides a userselectable 4 to 20mA or 0 to 10V DC absolute linear position signal over an 80-inch or 120-inch full stroke range option. Signal selection is simply made by connecting the appropriate pins on the included connector or selecting the proper wires in the optional cordset. Additionally, this sensor is constructed with a rugged polycarbonate body, an extremely durable spring-loaded stainless steel measuring cable and a mounting bracket that lets the customer mount this sensor in just about any direction.

## **Speciafications:**

Stroke Range User Selectable Output Signal	: 80 inches (2,032 mm), 120 inches (3,048mm) : 4 to 20mA (2-wire) / 0 to 10V DC : 8 to 40V DC
Input Voltage, 4 to 20mA option Input Voltage, 0 to 10V DC option	: 12 to 32V DC
Accuracy	: 0.35% FS.
Repeatability	: 0.05% FS.
Resolution	: Essentially Infinite
Measuring Cable	: 0.019-inch dia. nylon-coated stainless steel
Maximum Acceleration	: 10g
Measuring Cable Tension	: 9oz. (2,5 N) ±30%
Sensor	: Plastic-hybrid precision potentiometer
Cycle Life	: ≥ 250,000
Electrical Connection	: M12 connector (mating plug included)
Enclosure	: Glass-filled polycarbonate
Environmental	: IP 67
Operating Temperature	: 0°F to 160°F (-18°C to 70°C)
Weight, 80-inch (not including bracket)	: 0.6 lbs. (272g)
Weight, 120-inch (not including bracket)	: 1 lb. (453 g)

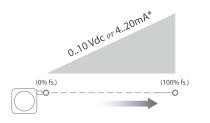
# **Ordering Information:**

Part Number	Decription
SGD-80-3	80-inch stroke range, 4 to 20mA / 0 to 10V DC output M12 connector, IP67 environments, mounting bracket included
SGD-120-3	120-inch stroke range, 4 to 20mA / 0 to 10V DC output M12 connector, IP67 environments, mounting bracket included



# multicomp PRO

# **Output Signal:**

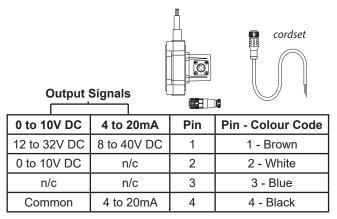


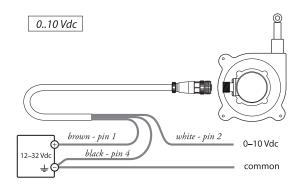
Signal Endpoint Tolerances				
Output Signal*	0% fs.	100% fs.		
4 to 20mA	4 – 4.25mA	19.2 – 20mA		
0 to 10V DC	0 – 0.2V DC	9.5 – 10V DC		

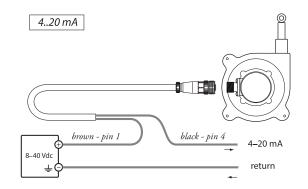
\*Note: signal endpoints are set at the time of manufacture and cannot be adjusted

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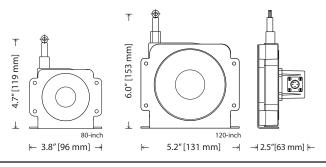
# **Electrical Connection:**



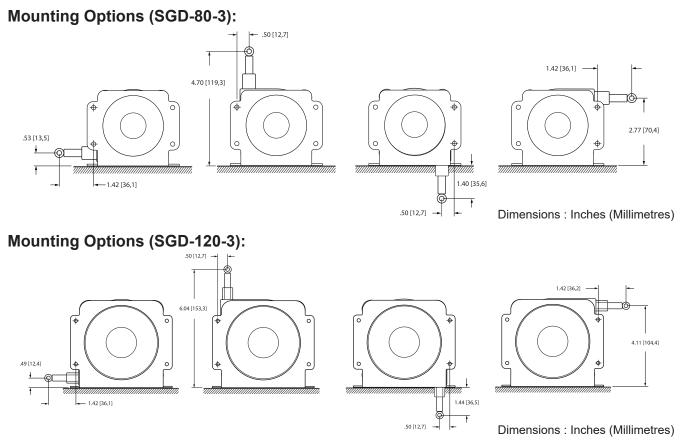




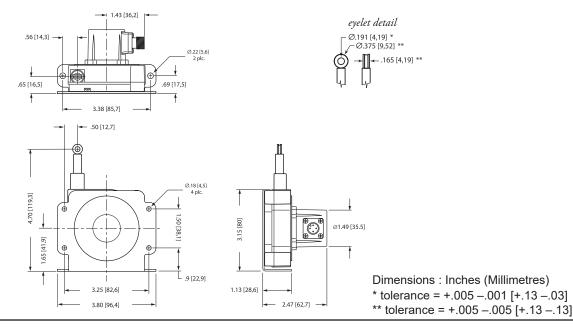
## **Dimensions:**



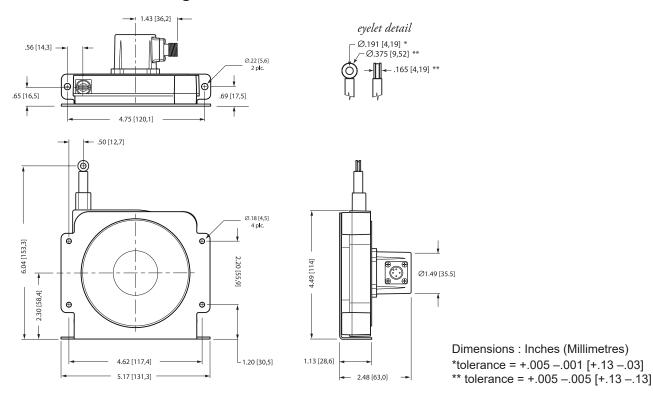




# SGD-80-3 w/ Mounting Bracket:







### SGD-120-3 w/ Mounting Bracket:

#### Part Number Table

Description	Part Number
Cable Extension Transducer, 80"	SGD-80-3
Cable Extension Transducer, 120"	SGD-120-3

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