

The SG1 provides absolute linear position up to a 10-ft. stroke range. Constructed with a rugged polycarbonate body, this model is available in an 80-inch or 120-inch stroke range and offers optional IP67 protection for wet or outdoor installations and an M12 connector for easy installation.

The SG1 uses a precision high-cycle plastic hybrid potentiometer and an extremely durable spring-loaded stainless steel measuring cable to provide an accurate reliable position feedback signal over the entire stroke. With its slim design and versatile mounting bracket, the SG1 has been designed to fit into spaces no other measurement device can. For the OEM customer, custom mounting hardware and electrical connections are available.



SG1

Cable Actuated Sensor Voltage Divider Output Signal

Compact Mid-Range String Pot • Absolute Position

80, 120-inch Stroke Range Options

Polycarbonate Enclosure • IP67

In Stock for Quick Delivery

Specifications

Stroke Range Options	80 inches (2032 mm), 120 inches (3048 mm)
Output Signal	voltage divider (potentiometric)
Accuracy	.35% FS.
Repeatability	.05% FS.
Resolution	essentially infinite
Measuring Cable	.019-inch dia. nylon-coated stainless steel
Maximum Acceleration	10 g
Measuring Cable Tension	9 oz. (2,5 N) ±30%
Sensor	plastic-hybrid precision potentiometer
Input Resistance	10K ohms, ±10%
Power Rating, Watts	2.0 at 70°F
Recommended Maximum Input Voltage	30 V (AC/DC)
Output Signal Change Over Full Stroke Range	94% ±4% of V(+in)
Cycle Life	≥ 250,000
Electrical Connection	see ordering information
Enclosure	glass-filled polycarbonate
Environmental	IP 50 , IP67 (m12 connector & pigtail options)
Operating Temperature	-40° to 160° F (-40° to 70° C)
Weight, 80-inch (not including bracket)	.6 lbs. (272 g)
Weight, 120-inch (not including bracket)	1 lb. (453 g)

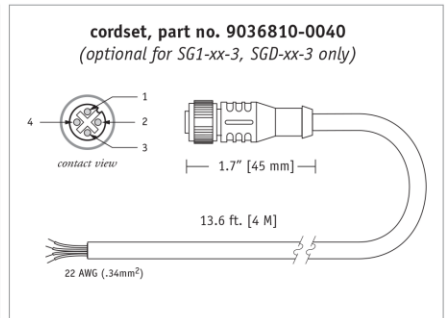
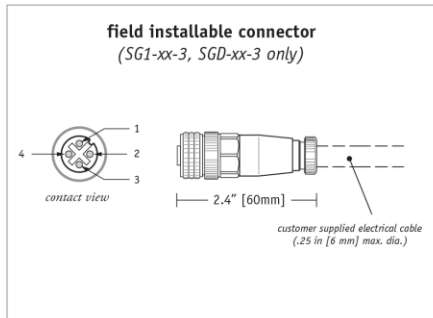
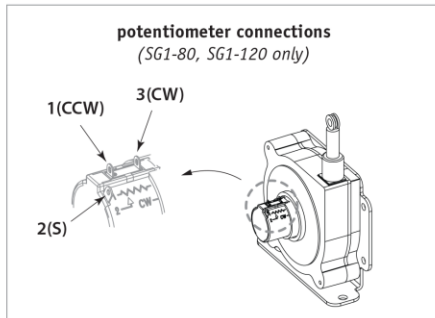
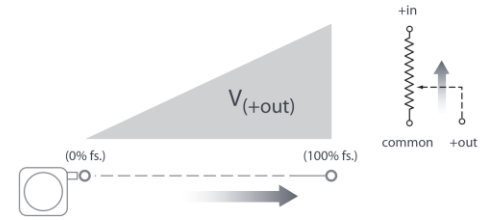
Electrical Connection



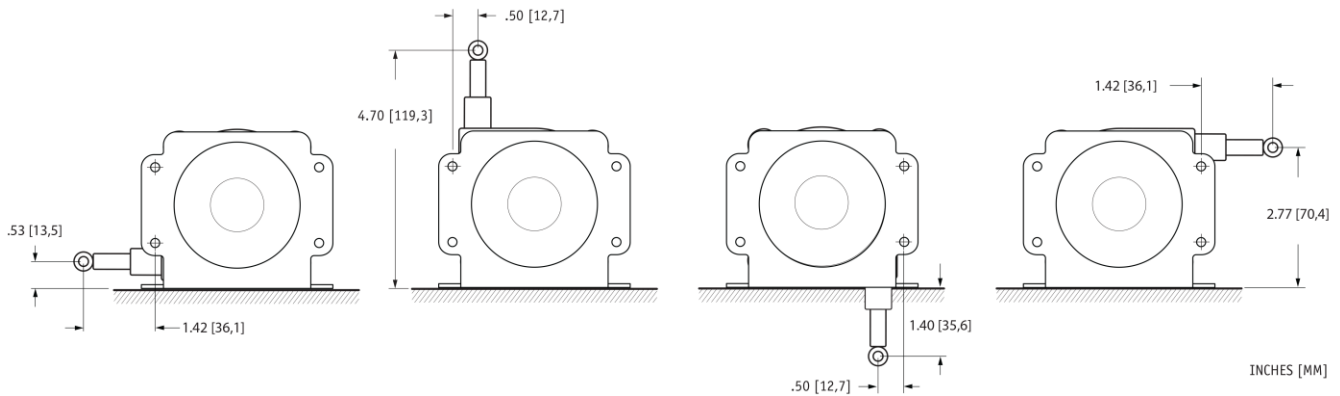
signals	terminal	colorcode	pin*	pin - colorcode*
+in	3 (cw)	red	1	1 - brown
common	1 (ccw)	black	2	2 - white
+out	2 (s)	green	3	3 - blue

*note: connector pin 4 and the black wire on the cordset are NOT used.

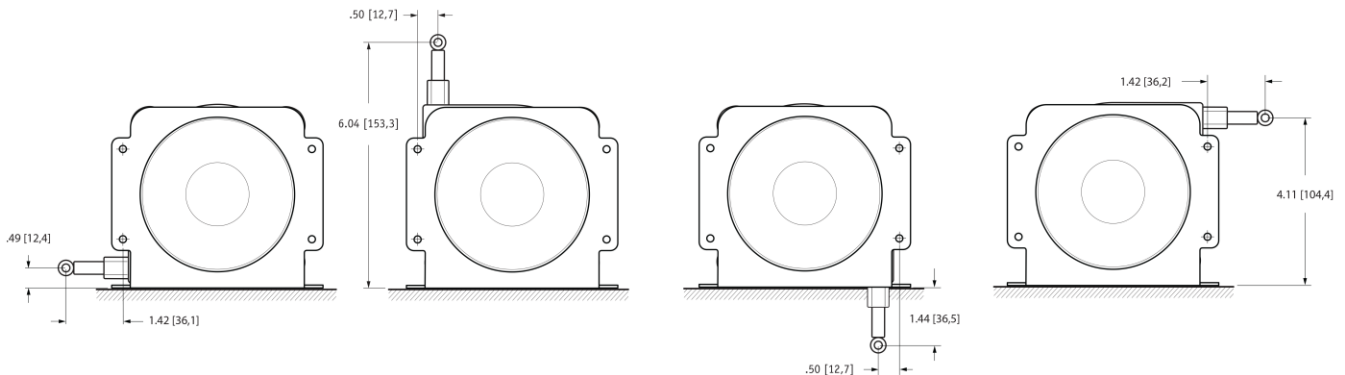
Output Signal



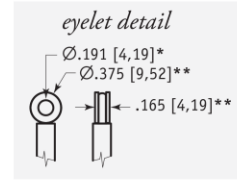
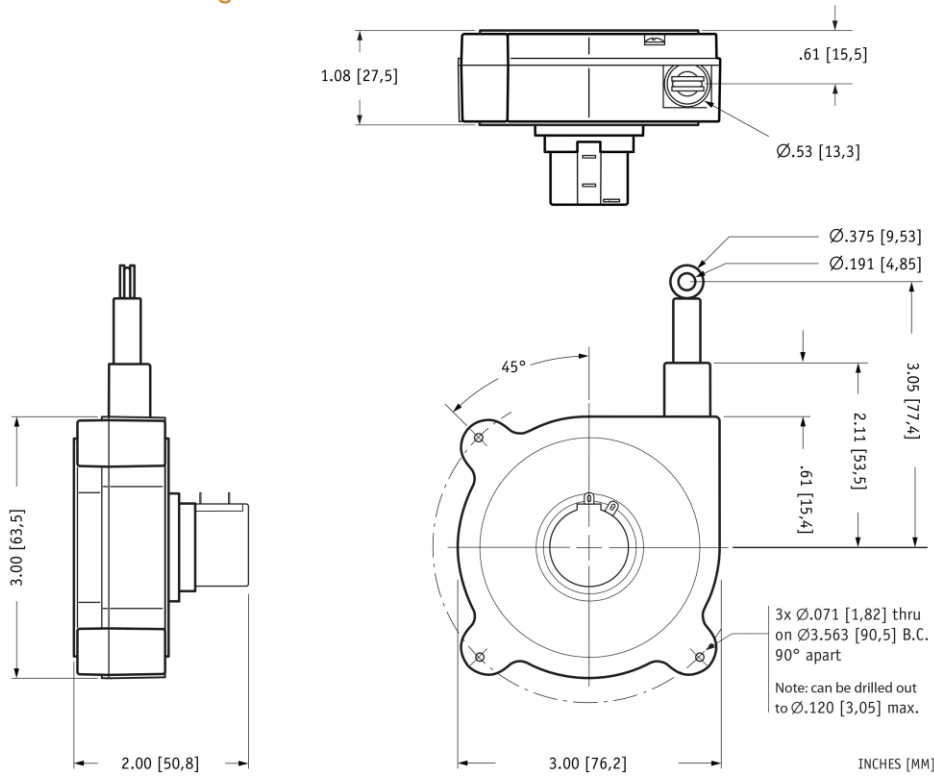
Mounting Options (SG1-80, SG1-80-2, SG1-80-3):



Mounting Options (SG1-120, SG1-120-2, SG1-120-3):

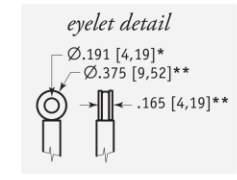
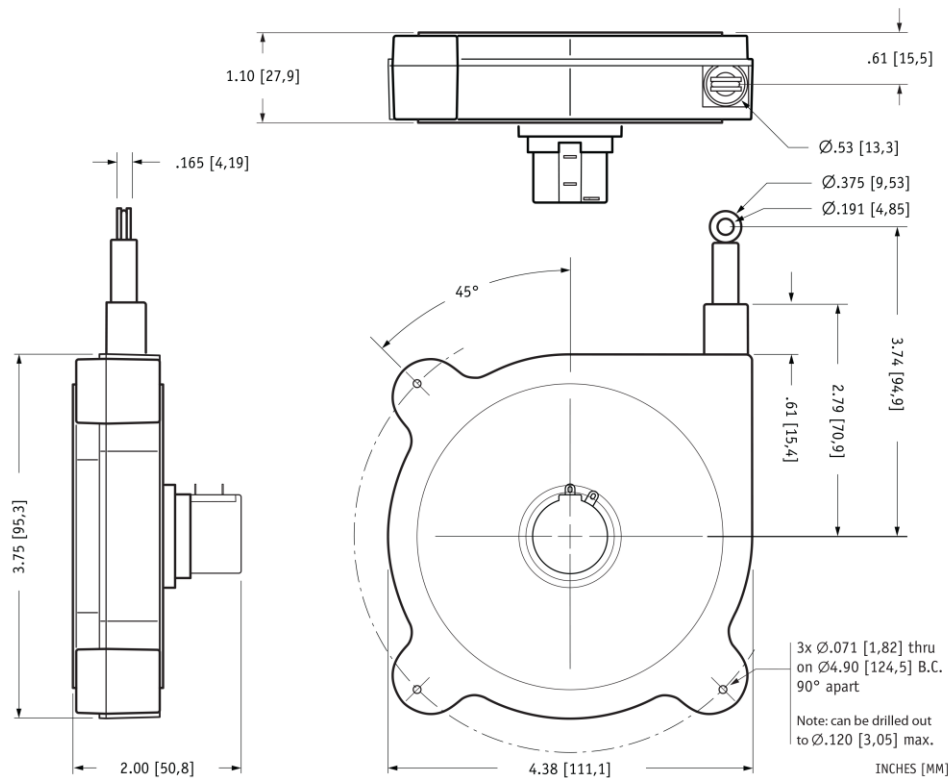


SG1-80 w/o Mounting Bracket:



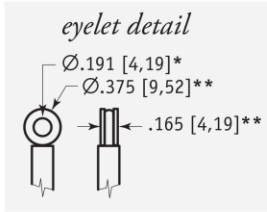
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 **tolerance = +.005 -.005 [+13 -.13]

SG1-120 w/o Mounting Bracket:

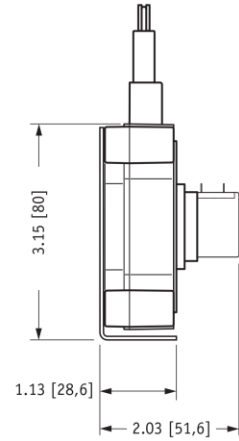
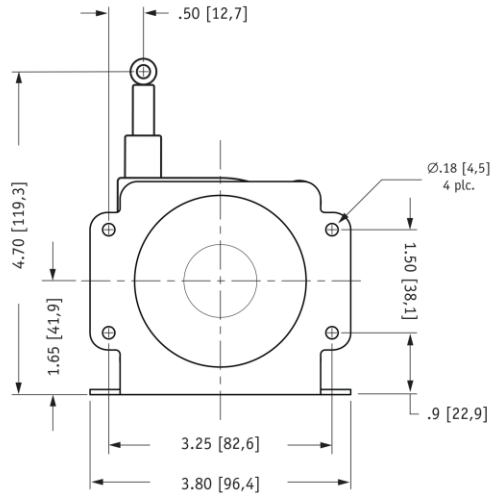
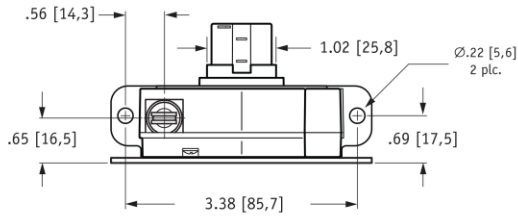


*tolerance = +.005 -.001 [+13 -.03]
 **tolerance = +.005 -.005 [+13 -.13]

SG1-80 w/ Mounting Bracket:

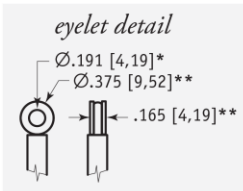


*tolerance = +.005 -.001 [+13 -.03]
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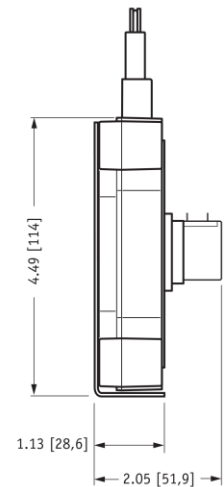
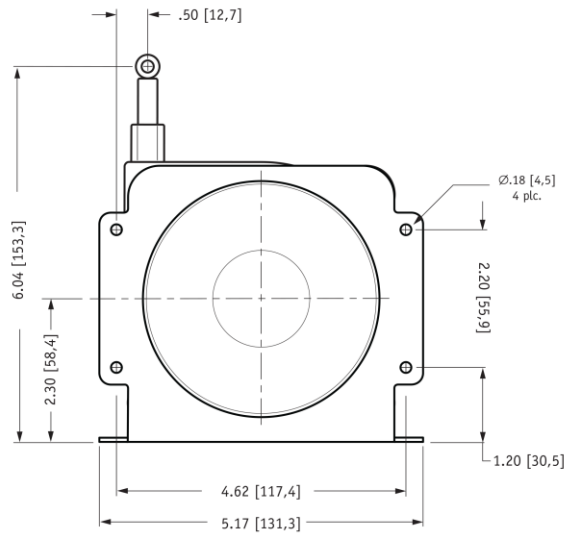
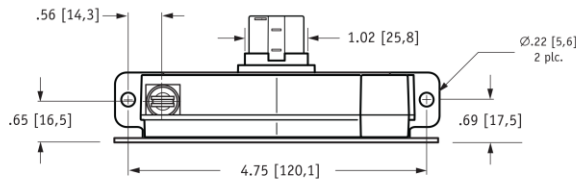


INCHES [MM]

SG1-120 w/ Mounting Bracket:

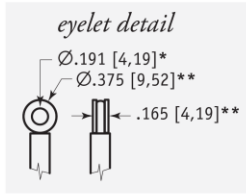


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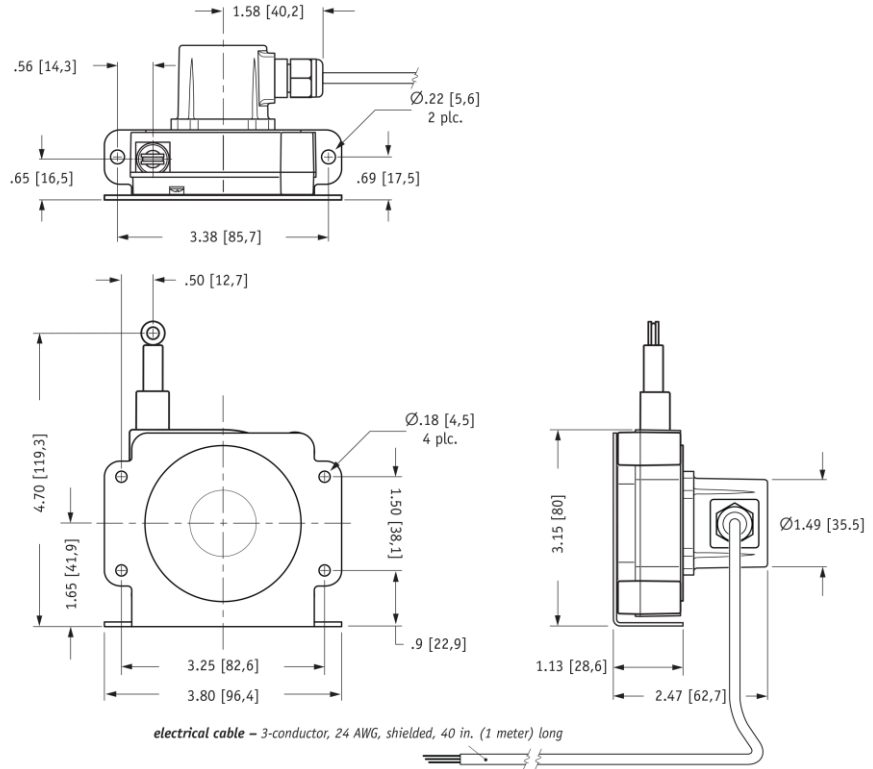


INCHES [MM]

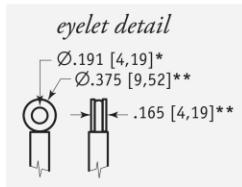
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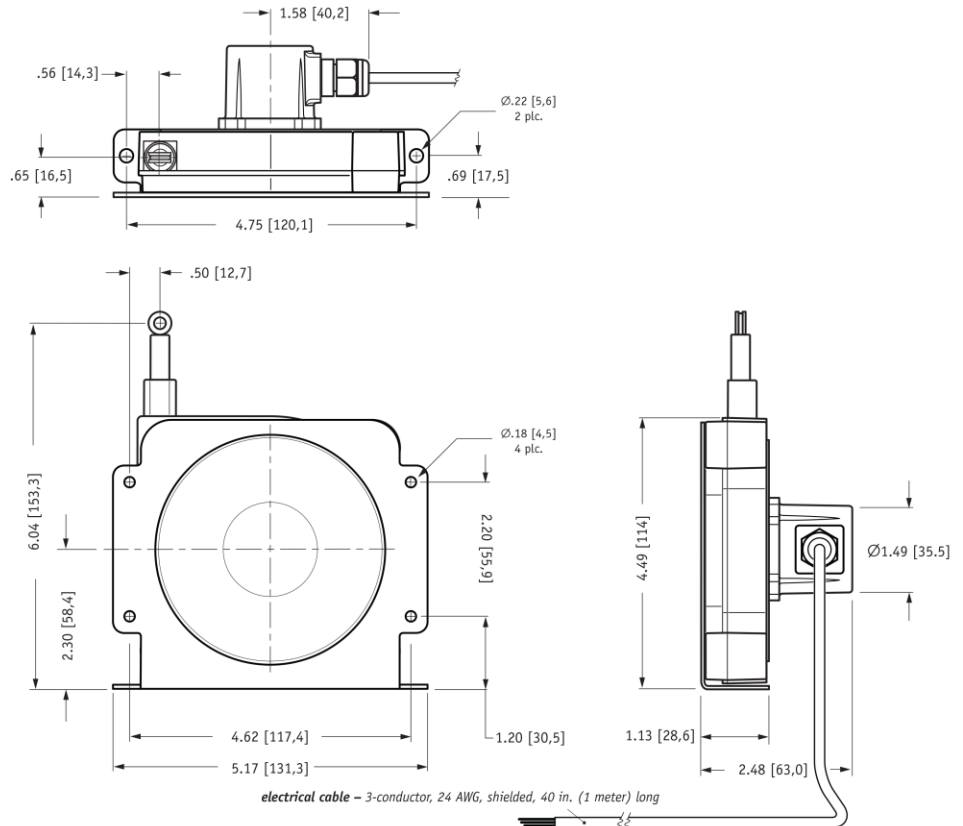
*tolerance = +.005 - .001 [+13 -.03]
**tolerance = +.005 - .005 [+13 -.13]



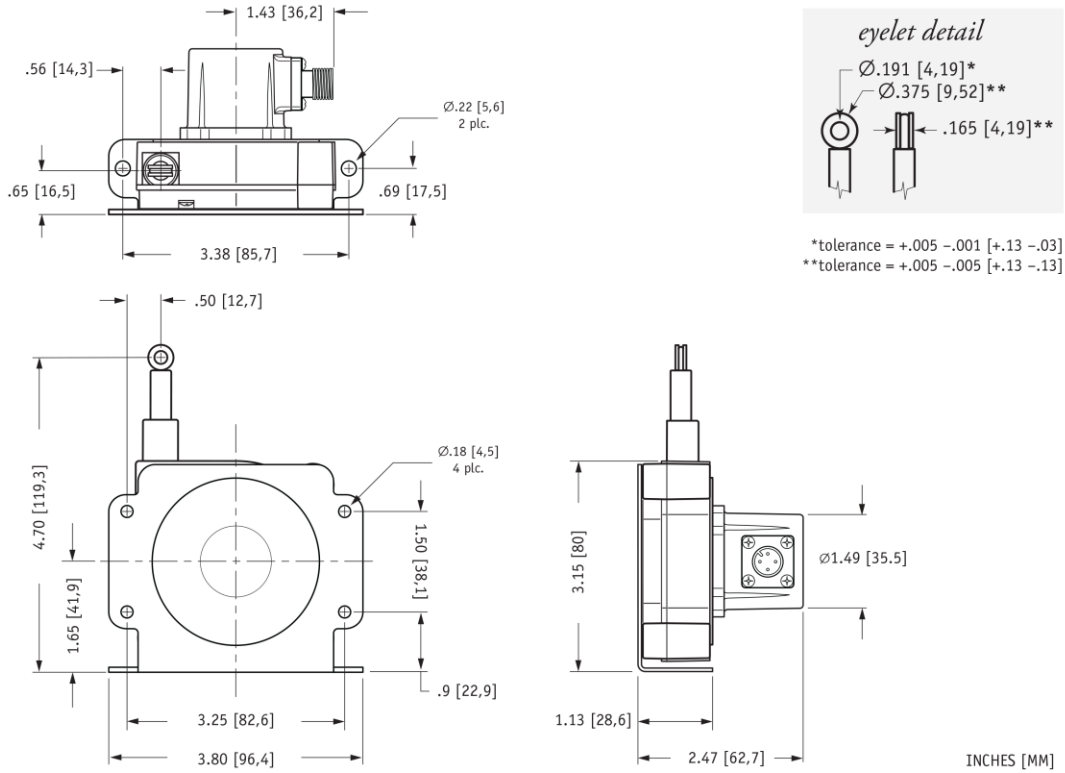
SG1-120-2 w/ Mounting Bracket:



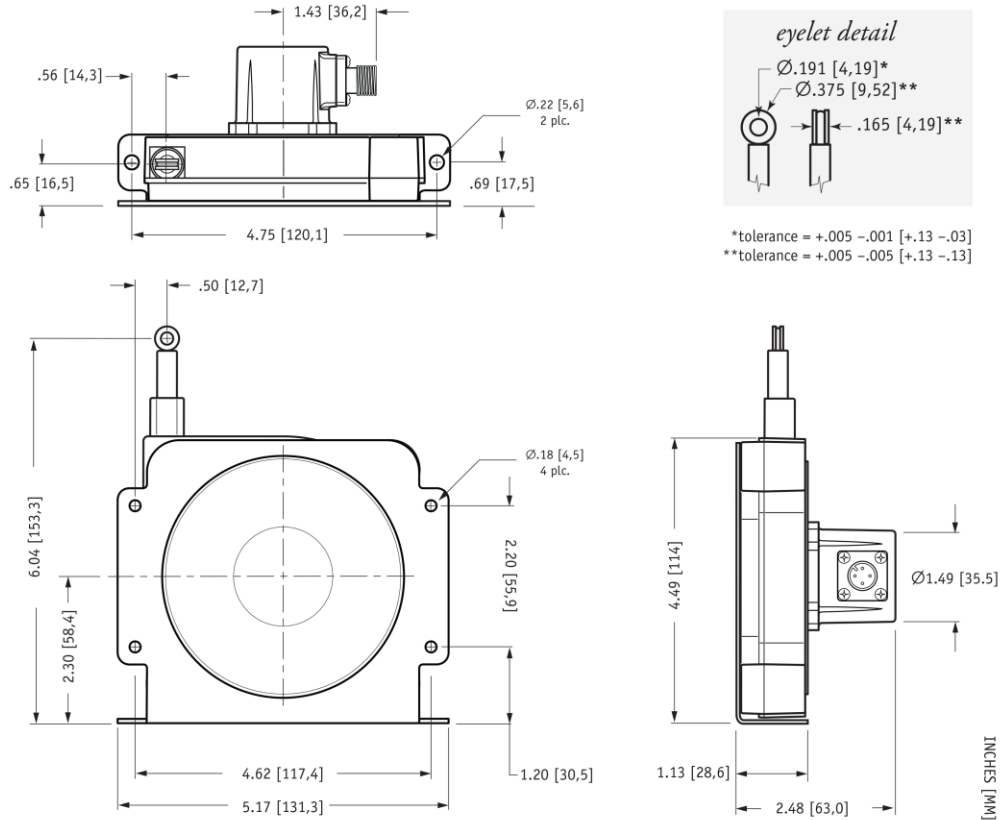
*tolerance = +.005 - .001 [+13 -.03]
**tolerance = +.005 - .005 [+13 -.13]

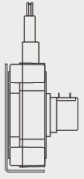


SG1-80-3 w/ Mounting Bracket:



SG1-120-3 w/ Mounting Bracket:



Ordering Information

Part No.

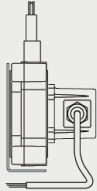
SG1-80

80-inch stroke range,
solder terminal connection,
IP50 environments,
mounting bracket included

Part No.

SG1-120

120-inch stroke range,
solder terminal connection,
IP50 environments,
mounting bracket included



Part No.

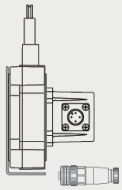
SG1-80-2

80-inch stroke range,
40-inch electrical cable,
IP67 environments,
mounting bracket included

Part No.

SG1-120-2

120-inch stroke range,
40-inch electrical cable,
IP67 environments,
mounting bracket included



Part No.

SG1-80-3

80-inch stroke range,
M12 connector,
IP67 environments,
mounting bracket included

Part No.

SG1-120-3

120-inch stroke range,
M12 connector,
IP67 environments,
mounting bracket included



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

**Optional
Cordset**

Part No.

9036810-0040

for short-run connections, a convenient optional
13-ft. cordset with a 4-pin M12 connector is available
for the SG1-80-3 and SG1-120-3.

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity company
20630 Plummer Street
Chatsworth, CA 91311
Tel +1 800 423 5483
Tel +1 818 701 2750
Fax +1 818 701 2799
info@celesco.com

TE.com/sensorsolutions

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SG1 12/01/2015

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9