

## Installation Instructions

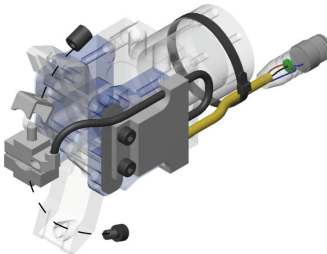
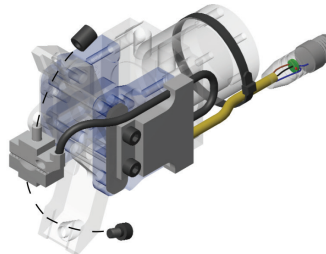
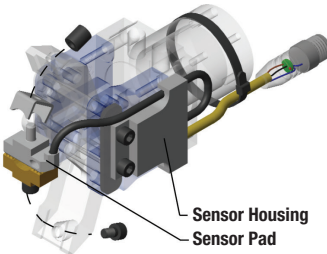
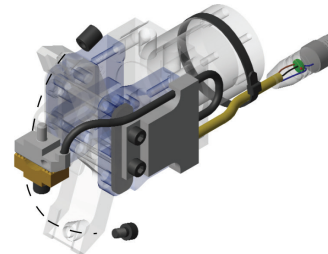
### In-Pad Gripper Sensor

Catalog #: SGS40014(NPN), SGS40015(PNP) SGS40014KS : NPN KIT WITH SILVER OPPOSING PAD SGS40014KG : NPN KIT WITH GOLD OPPOSING PAD SGS40015KS : PNP KIT WITH SILVER OPPOSING PAD SGS40015KG : PNP KIT WITH GOLD OPPOSING PAD.

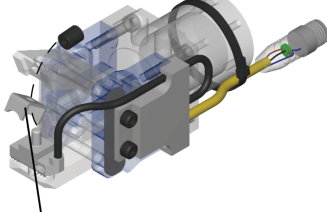
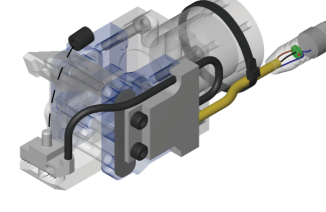
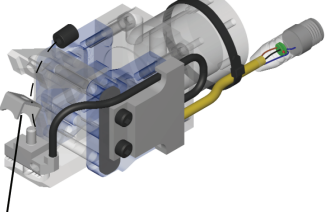
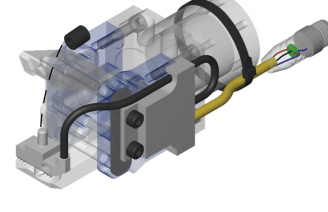
**Install the sensor pad and sensor housing as instructed below, using the shim as needed.**

Place cable through the slot in sensor housing as illustrated, keeping loop to rear of sensor housing. Keep cable along gripper jaw profile allowing enough slack for gripper motion. (see page 2)

### Regular Jaw

SGS4001XKS KITS		SGS4001XKG KITS	
			
<b>1 Shim</b>	<b>No Shim</b>	<b>1 Shim</b>	<b>No Shim</b>
Silver Pad	Silver Pad	Gold Pad	Gold Pad
0.50mm - 2.00mm Range	2.01mm - 3.50mm Range	2.01mm - 3.50mm Range	3.51mm - 5.00mm Range

### Chisel & Flange Jaw

			
<b>1 Shim</b>	<b>No Shim</b>	<b>1 Shim</b>	<b>No Shim</b>
0.50mm - 2.00mm Range	2.01mm - 3.50mm Range	3.51mm - 5.00mm Range (See Note 1) 6.51mm - 8.00mm Range (See Note 2)	5.01mm - 6.50mm Range (See Note 1) 8.01mm - 9.50mm Range (See Note 2)

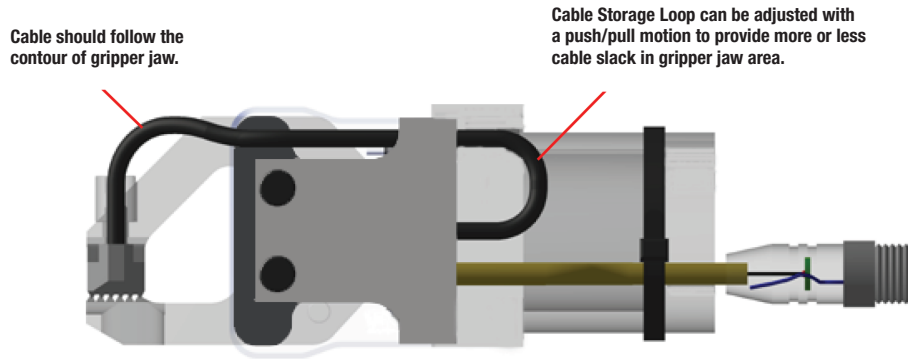
NOTE 1 - The material thickness ranges shown above only apply if installed on series LTG1010X (D or G) grippers.

NOTE 2 - The material thickness ranges shown above only apply if installed on series LTG1010X (E or H) grippers.

### Spare Parts - 07750 Allen Nut; 07769 Shim

Component	Tool	Loctite	Torque
Sensor Nut	4mm Hex Key	262	72 in.lb.
Pad Bolt	4mm Hex Key	262	72 in.lb.
Monitor Housing	4mm Hex Key	262	36 in.lb.

## Installation:



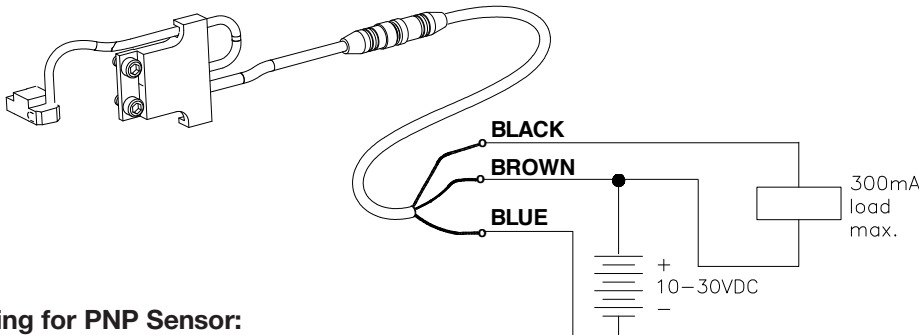
## Technical Data

### NPN/PNP Sensor Specifications:

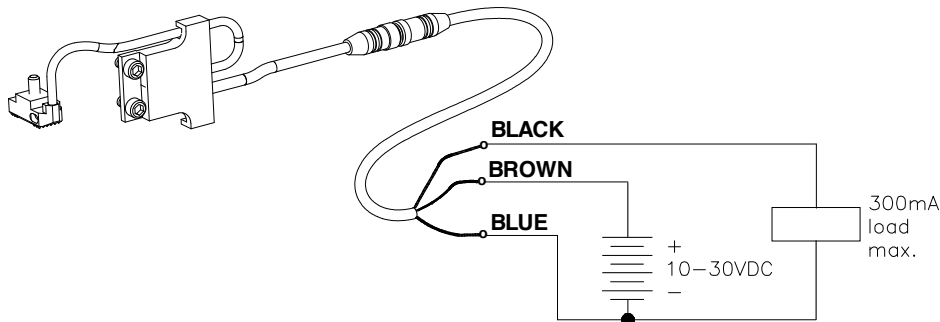
Sensor Connector:	4-Pin 1 Key Male Micro Connector
Supply Voltage Range:	10 VDC (min.) to 30 VDC (max.)
Maximum Continuous Load Current:	300 mA
Operating Temperature Range:	0 C° (min.) to 60 C° (max.)
Sensing Range:	1.2mm above Gripper Pad
Response Time:	25 ms turn-on time, 60ms turn-off time
Target Material:	Steel & Aluminum
LED:	RED: On when target is detected; 360 degrees visibility
Short Circuit Protection:	Automatically resets when short is removed
Overload Protection:	Current Limits at .8° Typ.
Reverse Polarity Protection:	Up to 50 volts DC
Sensor Housing:	All Steel Construction with FR4 Sensing Face.
Monitor Housing:	Aluminum
Housing Seal:	IP68

## Wiring:

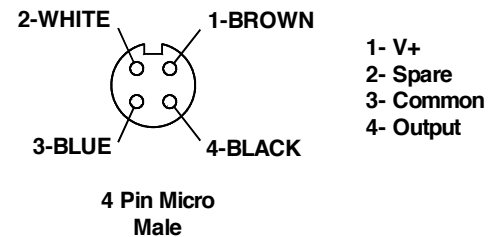
### Wiring for NPN Sensors:



### Wiring for PNP Sensor:



### Connector for PNP / NPN:





#### Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

**Proposition 65:** These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.

#### Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.