

## User Instructions

### In-Pad Gripper Sensor – 30 Degree

**Catalog # SGS40014-30(NPN), SGS40015-30(PNP)**

**SGS40014KS-30:** NPN KIT WITH SILVER OPPOSING PAD

**SGS40015KS-30:** PNP KIT WITH SILVER OPPOSING PAD

**SGS40014KG-30:** NPN KIT WITH GOLD OPPOSING PAD

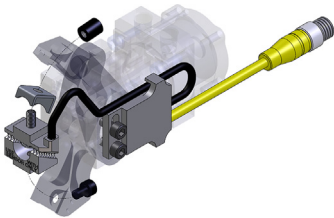
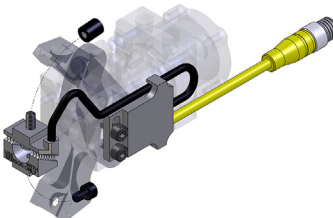
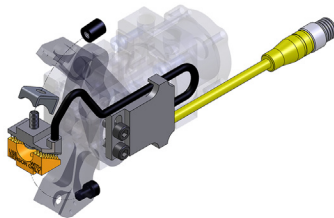
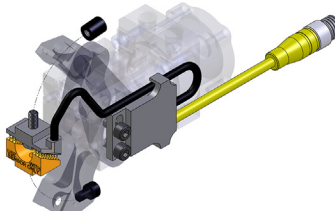
**SGS40015KG-30:** PNP KIT WITH GOLD OPPOSING PAD

**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-30 KITS		SGS4001XKG-30 KITS	
			
1 Shim	No Shim	1 Shim	No Shim
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

### 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.

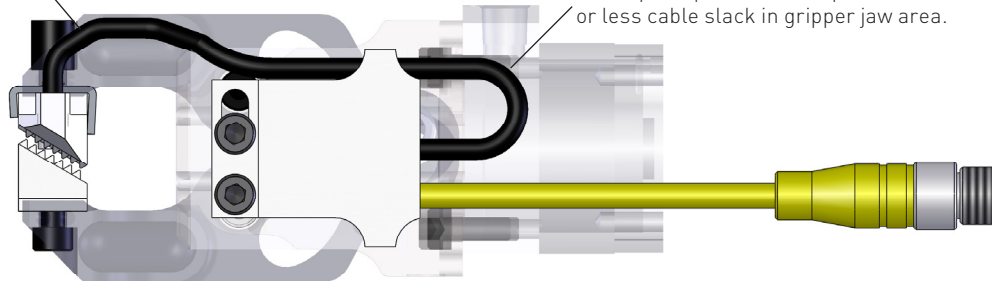


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Cable should follow the contour of gripper jaw.

Cable Storage Loop can be adjusted with a push/pull motion to provide more or less cable slack in gripper jaw area.



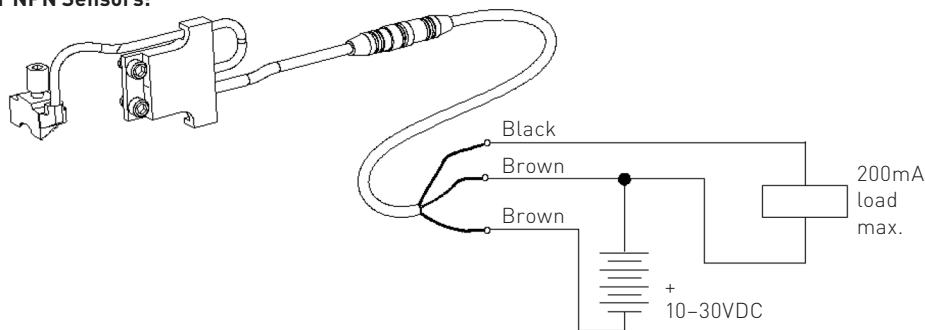
## Technical data

### NPN/PNP Sensor Specifications

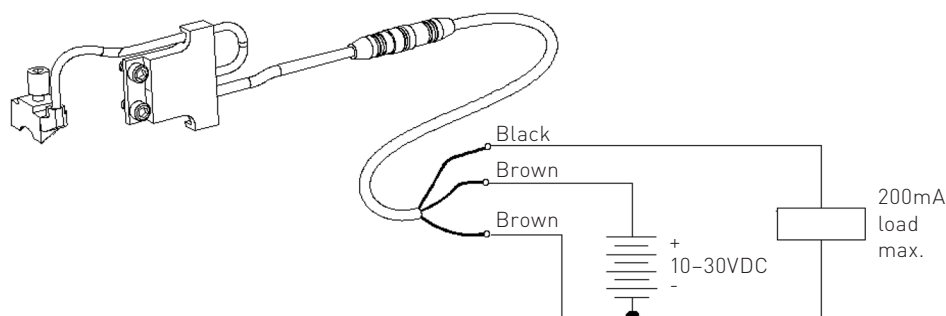
Sensor Connector:	4-Pin (male) Micro Connector
Supply Voltage Range:	10 VDC(min.) to 30 VDC (max.)
Maximum Continuous Load Current:	200mA
Operating Temperature Range:	0 C° (min.) to 60 C° (max.)
Sensing Range:	1.2mm above Gripper Pad
Response Time:	25 ms turn-on time, 60ms turn-off time
Target Material:	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 325ma
Reverse Polarity Protection:	Up to 36 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

