

User Instructions

In-Pad Gripper Sensor with Pico Cable

Catalog #: SGS40014P(NPN), SGS40015P(PNP)

SGS40014PKS: NPN KIT WITH SILVER OPPOSING PAD

SGS40014PKG: NPN KIT WITH GOLD OPPOSING PAD

SGS40015PKS: PNP KIT WITH SILVER OPPOSING PAD

SGS40015PKG: PNP KIT WITH GOLD OPPOSING PAD.

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

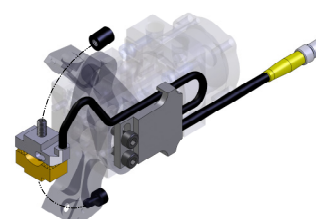
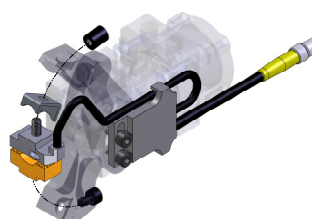
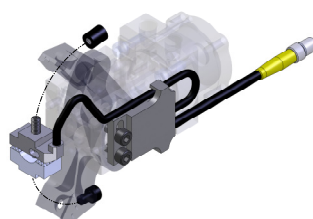
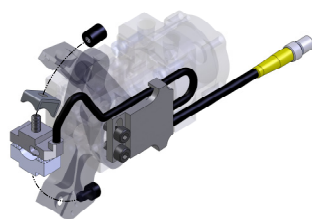
Place cable through the slot in sensor housing as illustrated, keeping loop to rear of sensor housing.

Keep cable along gripper jaw profile allowing enough slack for gripper motion. (see page 2)

Regular Jaw

SGS4001XPKS KITS

SGS4001XPKG KITS



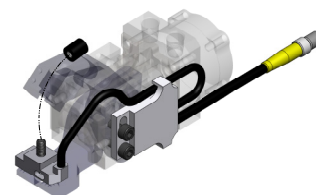
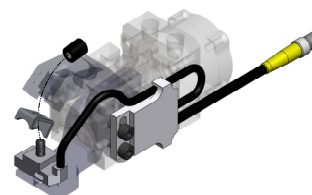
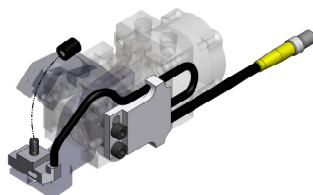
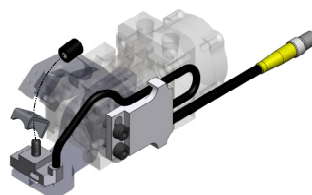
1 Shim
Silver Pad
0.50mm - 2.00mm Range

No Shim
Silver Pad
2.01mm - 3.50mm Range

1 Shim
Gold Pad
2.01mm - 3.50mm Range

No Shim
Gold Pad
3.51mm - 5.00mm Range

Chisel & Flange Jaw



1 Shim
0.50mm - 2.00mm Range

No Shim
2.01mm - 3.50mm Range

1 Shim
3.51mm - 5.00mm Range [See Note 1]
6.51mm - 8.00mm Range [See Note 2]

No Shim
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 PGS10D grippers.

NOTE 2 - The material thickness ranges shown above only apply if installed on series PGS10E 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.



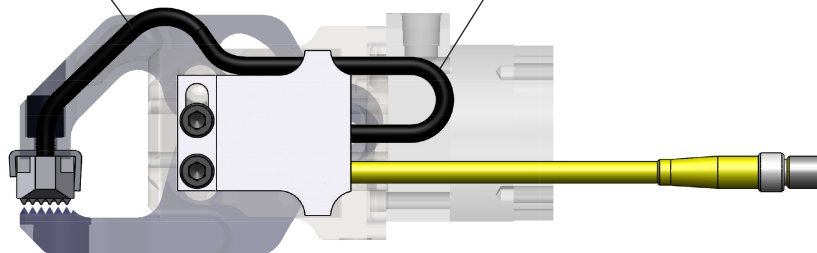
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Tel: 734-429-4989

Installation:

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.



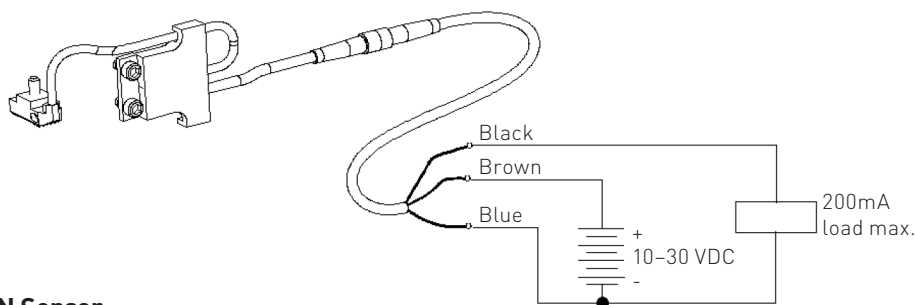
Technical Data

NPN/PNP Sensor Specifications:

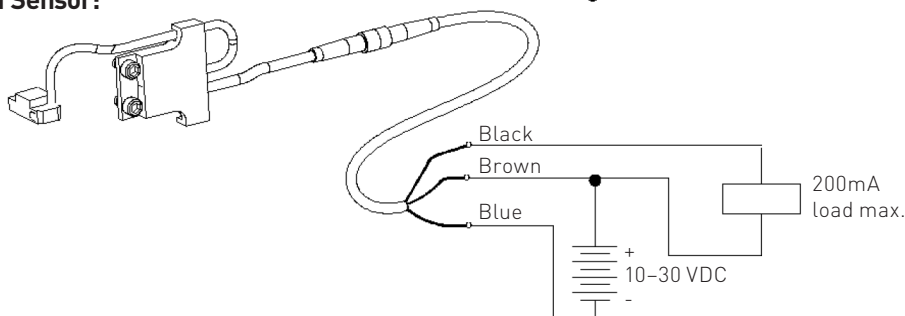
Sensor Connector:	3-Pin (male) Micro Connector
Supply Voltage Range:	10 VDC (min.) to 30 VDC (max.)
Maximum Continuous Load Current:	200 mA
Operating Temperature Range:	0°C (min.) to 60°C (max.)
Sensing Range:	1.2mm above Gripper Pad
Response Time:	25 ms turn-on time, 60ms turn-off time
Target Material:	Steel & Aluminum
Short Circuit Protection:	Automatically resets when short is removed
Overload Protection:	Current Limits at 325ma Typ.
Reverse Polarity Protection:	Up to 36 volts DC
Sensor Housing:	All Steel Construction with FR4 Sensing Face.
Housing Seal:	IP68

Wiring:

Wiring for PNP Sensors:



Wiring for NPN Sensor:



Connected for PNP/NPN

