



SG Process Control Instruments



www.sgprocess.com

The company '**SG Process Control Instruments**' was established in the year 2000 and is one of the premier manufacturers of Position Feedback Transmitters.

Our position transmitters are extensively used in different industries like Power Plant, Water Treatment Plant, Iron & Steel Factory, Sugar Factory, Cement Factory, Pharmaceutical and all such industries wherever signal feedback is required. They are designed, built and tested to meet the most demanding customer needs and are delivering superior performance in the most challenging in-plant and O.E.M. applications.

Our mission is to achieve complete customer satisfaction. We continuously aim at product refinement with ceaseless R & D. This is done through maintaining high quality of products, offering them at competitive price, adhering to prompt delivery schedules and attending to after sales in the most efficient manner. Growing from strength to strength, an emphasis on quality, focused business approach and innovative in-house developments have catapulted SGPCI into the forefront of position feedback transmitter manufacturers.

Mr. Baljeet Bhharij, founder of the company who is associated with process industry for more than 20 years and has acquired good knowledge working with the company pioneer in manufacturing Control Valves since more than 4 decades. He is the man behind the success story of SG Process Control Instruments.

Our other products are Position Transmitter with Built-in Limit Switch, Single Phase Electric Actuator for Linear Motion, Limit Switch box and Junction Box.

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Model:**SG-PTx-LN110****Position Transmitter****Position Transmitter with Limit Switch**

'SG' Position Transmitter is a two wire electronic transmitter that converts resistance input into current output.

When coupled to any rotary or reciprocating device, the transmitter picks up the travel of that device and provides feedback of rotary or linear displacement. If this signal is supplied to the control room or to an indicating unit, such as ammeter, the current shaft position can be monitored.

The Position Transmitter has excellent linearity and repeatability. It is easy to install and provides an excellent price and performance ratio. The transmitter can be configured to suit various shaft rotations or lifts and feedback signal can be selected between Direct Signal or Reverse Signal for a given movement of rotary or reciprocating device.














Specification (Position Transmitter)

Operating Voltage	18 - 30 Volts DC
Output Signal	*Select from Ordering Symbols ¹
Travel (Min / Max)	*Select from Ordering Symbols ²
Linearity Error (FS)	±1% (4-20mA) ±2% (0-135Ω)
Working Temperature	Upto 80° C
Load Impedance	600 Ω
Housing	Aluminium Pressure Die Cast
Cable Entry / Gland	PG – 11
Dimension	(LxHxW) 80 x 120 x 57 mm
Dimension(with Limit Switch)	(LxHxW) 100 x 160 x 80 mm

Specification (Limit Switch) - Optional

Rating	5A 250V AC
Switch Type	Honeywell Micro Switch

*Ordering Symbols: SG-PTx-     

Model	Application	Enclosure	Output Signal	Stroke (Travel) ²	Optional
SG-PTx-	 Linear	 Non Ex.Proof	 4 – 20 mA DC	 0-30/90 Degrees (Linear)	 None
	 Rotary		 0 – 135 Ω	 Quarter Turn (Rotary)	 Limit Switch 1NO+1NC
			 Ω (Special)	 Single/Multi Turn (Rotary)	 Limit Switch 2NO+2NC
					 Proximity Switch

Note: Other versions can be offered as per the requirement

Design & Information in this document is subject to change without notice


**ELECTRIC
ACTUATOR**

Control Valve needs actuator to operate. Where a pneumatic supply is not available or desirable it is possible to use an electric actuator.

'SG' Electric Actuators are most suitable for control/regulating duty applications of various types of valves such as Globe valve, Ball valve, Butterfly valve and Diaphragm valve. They can also be used with various types of dampers such as Single louver, Multi louver and VIV dampers.

The actuators are supplied with various types of accessories and can work on control signal of 4 – 20 mA and can also give feedback signal of 4 – 20 mA with respect to the actual position of the final control element.

TECHNICAL DATA & SPECIFICATIONS

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Actuator Model	Stroke (Travel)	Operating Speed	Rated Actuating Force	Maximum Closing Force	Motor Details						Actuator Weight
SG-EA- 	mm	mm/sec	kgs	kgs	Supply	Output Watts	Nominal Current mA (220V)	Insulation Class	Ambient Temp. Deg. C	Degree of Protection	Kgs
4026	40	0.26	200	350	220 V / 110 V AC @ 50/60 Hz	3.14	40.5	B	45	IP-65	4.5
4052	40	0.52	200	300							
6026	60	0.26	200	350							
6052	60	0.52	200	300		16.5	133	E	45	IP-65	10.5
6045	60	0.45	600	900							
6080	60	0.8	600	750							
7545	75	0.45	600	900							
7580	75	0.8	600	750							
Switching Frequency (Short Time)					7000 Operations/Hour						
Switching Frequency (Normal)					1800 Operations/Hour						

*Ordering Symbols: SG-EA-



Model	Application	Enclosure	Operating Voltage	Positioner (Signal)	FB Transmitter	Extra Limit Switch
SG-EA-	L Linear	N Non Ex.Proof	1 110 VAC 50/60 Hz	0 None	0 None	0 None
	R Rotary		2 230 VAC 50/60 Hz	1 Yes (4-20 mA)	1 0 – 135 2 4 – 20 mA	1 Yes

Example: For Electric Actuator with Positioner & Feedback Transmitter for Linear Travel up to 40 mm Max., Maximum Closing Force 350 Kgs, Operating Speed 0.26 mm/second & Operating Voltage 230 Volts AC;

Ordering Code will be **SG-EA-LN40262120**

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Rotary limit switch boxes provide a visual and remote electrical indication of quarter turn valve/actuator position normally used with Ball valves and Butterfly valves. However it can also be used for linear motion indication by using appropriate linkage. Rotary limit switch boxes can be provided with several switch options;

- Electromechanical Switches (Maximum 4 Nos. SPDT)
- Inductive proximity Sensors (2 Nos.)

It can also be supplied with in-built analog transmitter. Please refer our Position Feedback Transmitter for more details.

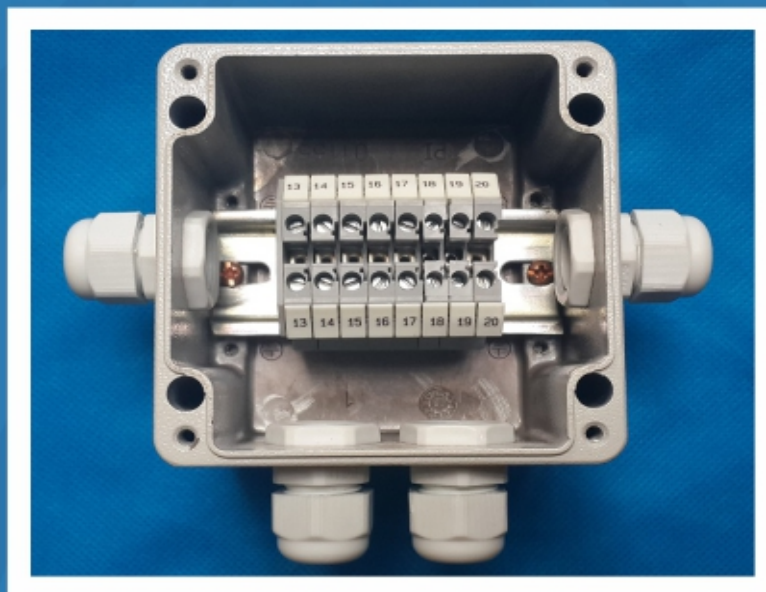
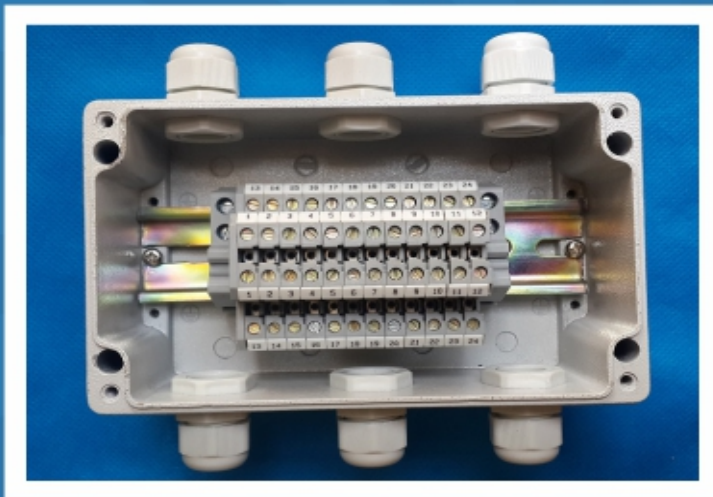


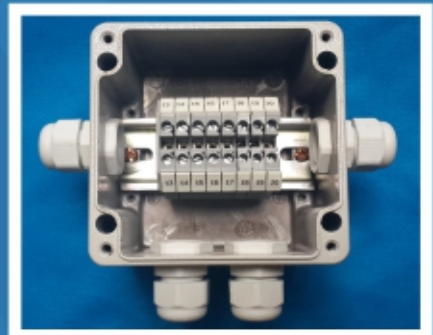
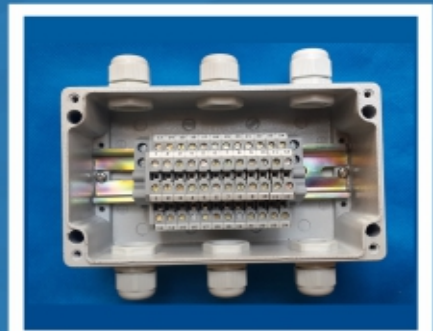
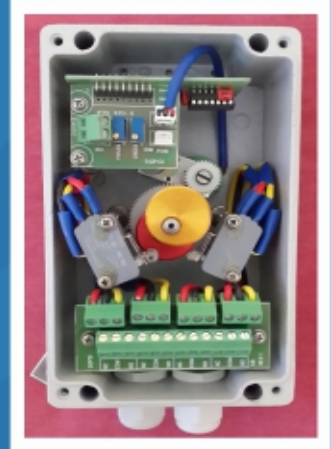
**Limit Switch Box with
Electromechanical Switches**



**Limit Switch Box with
Proximity Sensors**

SG make Junction Boxes are weather proof junction boxes used for multiple electrical connections in two or more directions to bring power to various electrical devices. It includes in-built terminals for the joining of wires usually intended to conceal them from sight and deter tampering. Junction boxes form an integral part of a circuit protection system where circuit integrity has to be provided or the wiring between an instrument and a control room. Available in 8, 12, 24 and 36 terminals.





Contact Person

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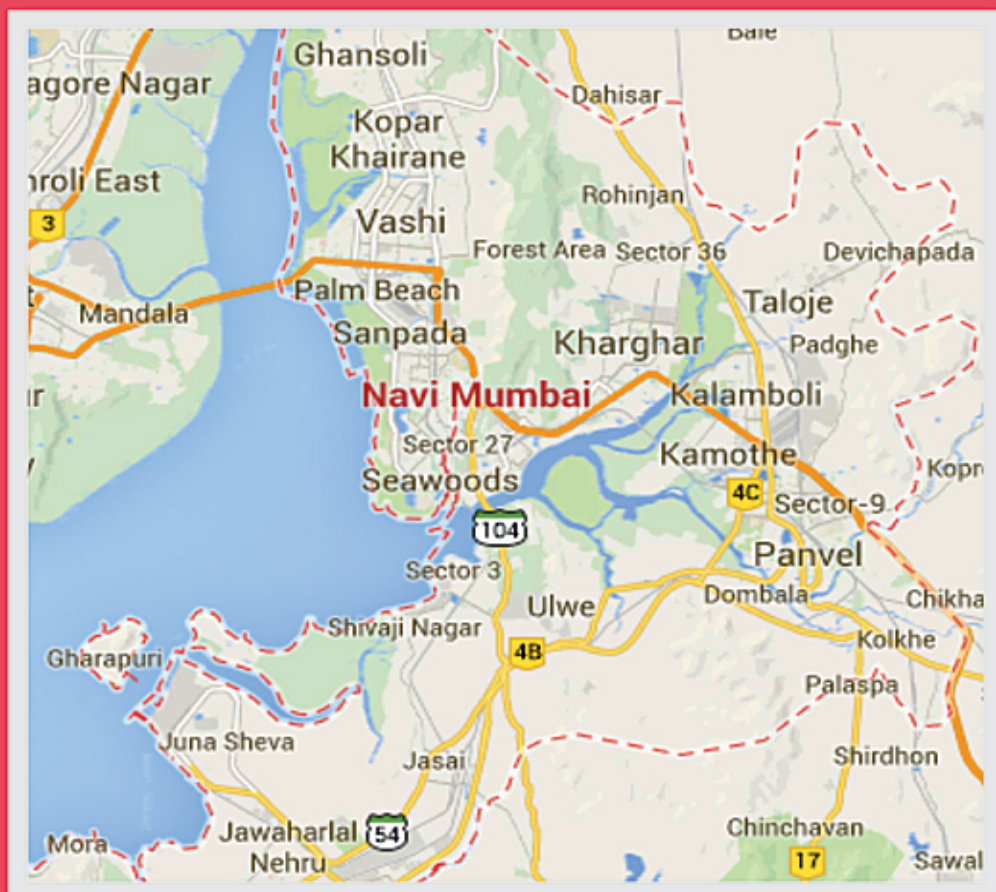
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