

SFA-F-SA

● Uses Potentiometer (Strain output)

Steering Force/Angle Transducer



Easy disconnection from steering shaft

- Steering force (Torque) and steering angle are strain output

This unit is easy to mount to and remove from the steering shaft, and both steering force (Torque) and steering angle are output as strain.

*Type that adds output for small angles (Rated $\pm 160^\circ$) output are available.

Specifications

Steering Torque

Rated Capacity	± 20 to 200 N·m (As specified)
Rated Output	± 1 mV/V or more
Nonlinearity	Within $\pm 0.3\%$ RO
Hysteresis	Within $\pm 0.3\%$ RO
Safe Overloads	120%
Input Resistance	$350 \Omega \pm 1\%$
Output Resistance	$350 \Omega \pm 1\%$

Steering Angle

Rated Capacity	± 3 rotations
Rated Output	± 1 mV/V or more
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO

General

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 6 VDC
Safe Temperature	0 to 60°C
Compensated Temperature	0 to 50°C
Weight	Approx. 3.3 kg (Including 1 kg of steering wheel)

Standard Accessories

2 Cables: 4-conductor (0.08 mm²) chloroprene shielded cable, approx. 4 mm diameter by 5m long, terminated with connector plugs at both ends (PRC03-12A10-7M to amplifier)
Adapter & Nut: One each (Acceptable order for machining serration by option)

Optional Accessories

Indirect adapter, Lock arms, and Housing case

SFA-F-SA
Recommended
products for
combination



SFA-H-SA

● Lightweight

● Uses rotary encoder (Voltage output)

Steering Force/Angle Transducer



Lightweight, for easy disconnection from steering shaft

- Steering force (Torque) is strain output and steering angle is voltage output

Unit is lightweight, for easy mounting to and removal from the steering shaft

Specifications

Steering Torque

Rated Capacity	± 50 Nm, ± 200 Nm
Rated Output	± 1 mV/V or more
Nonlinearity	Within $\pm 0.3\%$ RO
Hysteresis	Within $\pm 0.3\%$ RO
Safe Overloads	120%
Input Resistance	$350 \Omega \pm 1\%$
Output Resistance	$350 \Omega \pm 1\%$

Steering Angle

Rated Capacity	± 5 rotations
Rated Output	± 5 V
Excitation Voltage	9 to 16 VDC

General

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 6 VDC
Compensated Temperature	0 to 50°C
Safe Temperature	0 to 60°C
Weight	Approx. 2.5 kg (Including 1 kg of steering wheel)

SFA-H-SA
Recommended
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