SFA-F-SA

●Uses potentiometer (Strain output)

Steering Force/Angle Transducer



Easy to install to 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 steering force (torque) and steering angle are output as strain.
*Type that adds output for small angles (rated ±160°) is available.

Specifications

Steering Torque

Rated Capacity	±20 to ±200 N·m (As specified)
Rated Output	1 mV/V or more
Nonlinearity	Within ±0.3% RO (±150 N·m or more: ±0.5% RO)
Hysteresis	Within ±0.3% RO (±150 N·m or more: ±0.5% RO)
Safe Overloads	120%
Input Resistance	350 Ω ±1%
Output Resistance	350 Ω ±1%

Steering Angle

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

General

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 6 V AC or DC
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
Cable: 2
4-conductor (0.08 mm²) chloroprene shielded cable, 4 mm diameter by 5m long, terminated with connector plugs at both ends (Measuring instrument side: PRC03-12A10-7M)
Adapter and nut: 1 each (Acceptable order for machining serration by option)

Optional Accessories Indirect adapter, lock arms, housing case

●Dynamic measurement

SFA-F-SA Recommended products for combination


Universal Recorder EDX-200A
→ 3-57


Universal Recorder EDX-100A
→ 3-65


Memory Recorder/Analyzer EDX-5000A
→ 3-69

SFA-H-SA

●Lightweight
●Uses rotary encoder (Voltage output)

Steering Force/Angle Transducer



Lightweight
Easy to install to steering shaft

●Steering force (torque) is strain output, and steering angle is voltage output.

This unit is lightweight and easy to mount to and remove from the steering shaft.

Specifications

Steering Torque

Rated Capacity	±50 N·m, ±200 N·m
Rated Output	1 mV/V or more
Nonlinearity	Within ±0.3% RO
Hysteresis	Within ±0.3% RO
Safe Overloads	120%
Input Resistance	350 Ω ±1%
Output Resistance	350 Ω ±1%

Steering Angle

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

General

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

Standard Accessories Cable (Torque: Terminated with a connector plug PRC03-12A10-7M) (Angle: BNC connector)

●Dynamic measurement

SFA-H-SA Recommended products for combination


Universal Recorder EDX-200A
→ 3-57


Universal Recorder EDX-100A
→ 3-65


Memory Recorder/Analyzer EDX-5000A
→ 3-69