

SFA-F-SA

● Uses potentiometer (strain output)

Steering Force/Angle Transducer



Specifications

Steering Force

Rated Capacity :	±20 to 100 N·m (as specified)
Rated Output :	±1 mV/V (2000 μm/m) or more
Nonlinearity :	Within ±0.3% RO
Hysteresis :	Within ±0.3% RO
Safe Overload Rating :	120%
Input Resistance :	350 ±1%
Output Resistance :	350 ±1%

Steering Angle

Rated Capacity :	±3 turns
Rated Output :	±1 mV/V (2000 μm/m) or more
Nonlinearity :	Within ±0.5% RO
Hysteresis :	Within ±0.5% RO

General

Safe Excitation Voltage :	15V AC or DC
Recommended Excitation Voltage :	1 to 6V DC
Safe Temperature Range :	0 to 60°C
Compensated Temperature Range :	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. 4mm diameter by 5m long, terminated with connector plug at both ends (NDI connector plug to amplifier)
Adapter & Nut: One each (Acceptable order for serration machining by option)

Optional Accessories

Indirect adapter for double wheel system, Lock arms

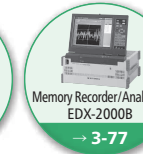
Easy disconnection from steering shaft

● 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 can be output as strain.

*Type that adds output for small angles (rated ±160°) output can also be manufactured.

SFA-F-SA
Recommended
products for
combination



SFA-H-SA

● Lightweight

● Uses rotary encoder (voltage output)

Steering Force/Angle Transducer



Specifications

Power steering

Rated Capacity :	±50Nm, ±200Nm
Rated Output :	±1mV/V(2000μm/m) or more
Nonlinearity :	Within±0.3%RO
Hysteresis :	Within±0.3%RO
Safe Overload Rating :	120%
Input Resistance :	350Ω±1%
Output Resistance :	350Ω±1%

Steering Angle

Rated Capacity :	±5 rotations
Rated Output :	±5V
Excitation Voltage :	DC9 to 16V

General

Compensated Temperature Range :	0 to 50°C
Safe Temperature Range :	0 to 60°C
weight :	Approx.2.5kg (including 1 kg of steering wheel)

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

SFA-H-SA
Recommended
products for
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