

Steering Force / Angle Transducer SFA-E-SA

Accurately measures the torque and angle of operated steering wheel



SFA-E-50NMSA



Dedicated Indicator

High-resolution angle detection, Thin-model, Lightweight

● Thin and Lightweight

Weight : Aplox. 2.5kg
(include steering wheel Approx.1.0kg)

● Steering Force(Torque)

Rated Capacity: +/-50Nm
(+/-20, 100, 200Nm is available)

Rated Output : +/-2V

Power : +/-5VDC

Nonlinearity : +/-0.3%RO *1

Hysteresis : +/-0.3%RO *1

Signal transmitting: Slip ring

*1: Nonlinearity and Hysteresis of Rated Capacity 200Nm is +/-0.5%RO.

● Steering Angle

Angle detection : Rotary encoder
Output puls : 18000puls / 360°
Endless rotation

● Optional products

- Serration machining of Steering shaft adapter
- Lock arms
- Dedicated carrying case
- Dedicated Indicator

Steering Force / Angle Transducer **SFA-E-SA**

■ Dedicated Indicator for SFA-E-SA

This Dedicated Indicator is connected with SFA-E Steering Force/Angle Transducer which provide built-in strain amplifier. Since the Signal Conditioner Unit is separated from the Display Unit, these units are easily installed at the required place. Input signals to the S/C Unit are voltage input and pulse input issued from SFA-E Steering Force/Angle Transducer. The S/C Unit also provides analog outputs to external data acquisition system. Since the angle pulse from SFA-E Steering Force / Angle Transducer accepts 18000 pulse / revolution, it can measure steering angle with high resolution.

- Separated Display unit and Signal Conditioner unit
- Display unit can be installed on conditioner unit or put on windshield using sucker.
- Input: Steering torque, steering angle(puls)
- Output: Steering torque, steering angle, angle rate (+/-5V DC)



■ Signal Conditioner Unit (SFA-E-218A)



■ Display Unit (SFA-E-20A)



Specifications are subject to change without notice for improvement.

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