



NSD researches, develops, manufactures, and sells associated mechatronics devices and control systems such as sensor and actuator.

ABSO PX, NSD True Heavy Duty Magnetic Proximity Sensor was developed on use in harsh, high temperature, high vibration, water condition, and outdoor environment.

Magnetic Proximity Sensor  
**ABSOPX**



### Magnetic Proximity Sensor

ABSO PX, NSD True Heavy Duty Magnetic Proximity Sensor was developed on use in harsh, high temperature, high vibration, water condition, and outdoor environment.

Weight & Tension Detector

**VRtension**



### Tension Measurement

NSD original tension measurement with VR Sensor.

EZ GAP®, Eazy and High Performance Eddy Current Displacement Sensor

Eddy Current Displacement Sensor



### Eddy Current Displacement Sensor

EZ GAP is the eddy current displacement sensor to measure the distance to iron, stainless and aluminum.

Explosion Proof Solution



### Explosion Proof Solution

Complies with Japanese explosion-proof test Exia IIB T4

NSD'S explosion proof solution is consist with the contoller and sensor and explosion safety barrier in between.

Extension sensor cable up to 200m

### Environment Resistance type Connector.

Have you ever felt tired of re-connecting when changing setup machines?  
Are you looking for connectors which are one-touch, strong and waterproof?

Designed for people in the fields.

SGA serie & Stainless-body SGU series.

**connector**



Protection rating: IP67

### Joint Development Products

Joint development products for process improvement.

Wireless Transfer Device

**ABSOCOUPLER**

Thermocouple data transmission type



### Slip-Ring and Wireless Transfer Device

Silver alloy slip-ring and non-contact power/data transfer device.



Position sensor acts as a bridge between a mechanical system and digital electronics, turning rotary or linear positions into numbers. ABSOCODER is an electro-mechanical position sensor and should be installed at mechanical system to measure the position. ABSOCODER is always required to connect with stand-alone NSD dedicated converter or controller at digital electronics system.

Single-turn type ABSOCODER Sensor

**VRE**



Multi-turn type ABSOCODER Sensor

**MRE**



### Single Turn Rotary Position Sensor

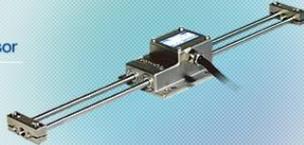
Absolute single turn rotary position sensor with magnetic reluctance change

### Multi Turn Rotary Position Sensor

Absolute multi turn rotary position sensor with magnetic reluctance change

Water Proof Linear type ABSOCODER Sensor

**VLS** IP67



Smart Linear Position Sensing Cylinder

**CYLNUC**



### Linear Position Sensor

NSD linear absolute position sensor, Linear ABSOCODER is an electro-mechanical sensor that measures the linear travel length and amount under magnetic reluctance change. ABSOCODER's outstanding durability with field proven performance is achieved by a creative construction of the design which eliminates mechanical contact parts and satisfies zero-electronics inside sensor. VLS is general and special purpose linear position sensor and Inrodsensor is smart linear position sensor which is installed inside cylinder.

### Position Sensing Smart Cylinder

CYLNUC is NSD smart linear position sensing cylinder that indicates the amount of linear travel and rod extension throughout the range of sensing stroke.



### Extension Cable

Extension sensor cable is the cable which connects an ABSOCODER sensor to converter.