Work style reforms with Sho-Haisen
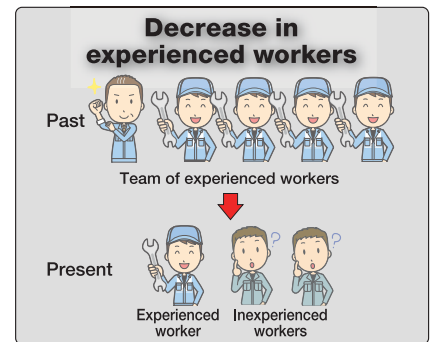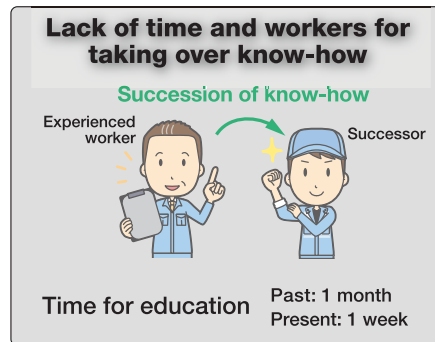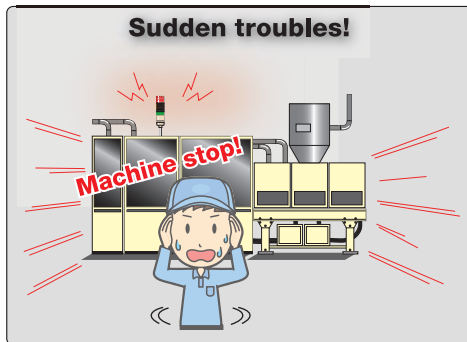
Anywire

Status monitoring and work-step reduction with the Sho-Haisen system.
It is the solution not only for I/O or bundles of cable.

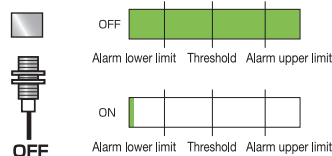# *AnyWireASLINK* [ASLINKSENSOR Proximity Type]
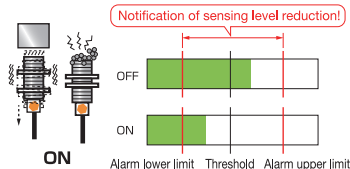
Problems at production site

Sudden troubles!

Machine stop!

Lack of time and workers for taking over know-how

Succession of know-how

Experienced worker → Successor

Time for education   Past: 1 month
Present: 1 week

Decrease in experienced workers

Past — Team of experienced workers

Present — Experienced worker / Inexperienced workers

Benefits of ASLINKSENSOR

■ Diagnosis with ASLINKSENSOR

■ When sensing level is sufficient

OFF
Alarm lower limit   Threshold   Alarm upper limit

ON
Alarm lower limit   Threshold   Alarm upper limit

OFF

■ When sensing level has lowered due to dirt or incorrect positioning of sensor

Notification of sensing level reduction!

OFF

ON
Alarm lower limit   Threshold   Alarm upper limit

ON

■ Remedy for sensing level reduction caused by dirt of sensor

OFF
Alarm lower limit   Threshold   Alarm upper limit
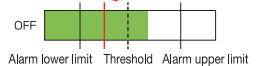
Diagnosis of sensing level data is enabled with the ASLINKSENSOR proximity type and GOT.

OFF

When no workpiece is present, the sensing level is not lower than the threshold, so that the sensor is OFF.

The AnyWireASLINK sensor **enables alarm level setting** for the purpose of sensing level monitoring, so that the user can check for sensing level reduction with the controller, even when the sensor seems to be normally operating.

If the sensing level becomes close to the threshold, erroneous detection occurs with the sensor, which causes minor stoppages of equipment. However, sensing level reduction **can be monitored before occurrence of trouble**.

For transmission of sensing level, the system uses an information area other than the I/O area. This means it does not uselessly occupy the number of input points required control.

The threshold setting can be changed with the controller. Therefore, the sensor enables ON/OFF detection with a certain margin even if the sensing level is low, when the threshold is set at a lower level as an emergency measure until maintenance.

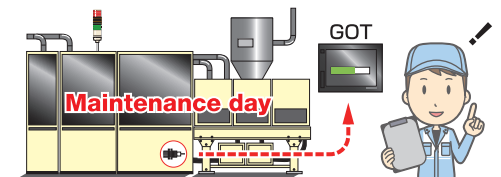Judgement and work based on experience and know-how

Experienced worker
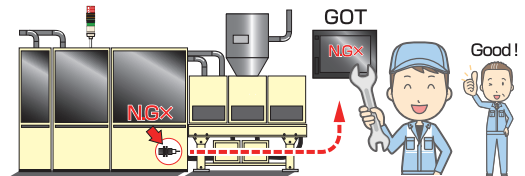
Real-time monitoring
Indication of cause of position error
Notification of alarm
Threshold setting can be changed.

AnyWireASLINK   Supporting field work!

GOT

Maintenance day

Preventive maintenance and scheduled maintenance!

Drafting of maintenance schedule through monitoring of sensing level. Threshold setting can be changed depending on the status, enabling prevention of minor stoppages of equipment.

GOT

NGx   Good!

NGx

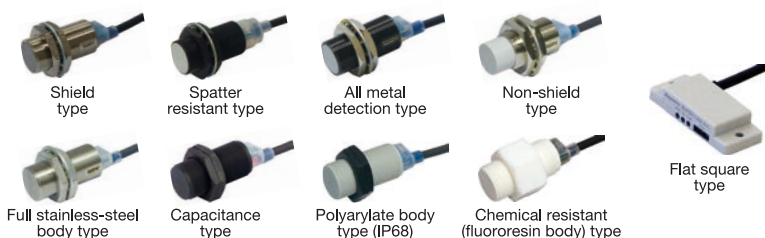**Identification of troubleshooting point and downtime reduction!**

Abnormal points and cause of trouble can be monitored in real time, so that the user can save time to identify a defective part and can reduce downtime during replacement and adjustment.

3 days → **1** day

"Sho-Haisen" and "diagnosis of sensor" enable work-step reduction.

Enabling labor-saving during startup and maintenance

ASLINKSENSOR Proximity Type

Shield type

Spatter resistant type

All metal detection type

Non-shield type

Flat square type

Full stainless-steel body type

Capacitance type

Polyarylate body type (IP68)

Chemical resistant (fluororesin body) type

■ Connecting method

Loose wires (Two wires)

M12 (Smartclick)

■ Indicator/setting port (common to full-thread body)

Address/parameter setting port (infrared ray)
ON/OFF indicator
ALM indicator

■ Specifications

Type	Detection distance (mm) Ambient temperature 23°C				Protection level	Connecting method	Standard detection object etc.
	M8	M12	M18	M30			
Shield type	0–1	0–2	0–5	0–10	IP67	Loose wires (Two wires) M12 (Smartclick)	Iron
Spatter resistant type	—						Iron, fluororesin coating
Non-shield type	0–3.4	0–6.8	0–12	0–20			Iron
Full stainless-steel body type	—	0–1.6	0–3.8	0–8			Iron
Chemical resistant (fluororesin body) type	—	0–2	0–5	0–10			Iron, in-house standard oilproof
Polyarylate body type (IP68)	—				IP68		Iron, waterproof
All metal detection type	—				IP67		AL, SUS 304, Cu, brass, iron
Capacitance type	—	—	0–8	0–15			Iron, liquid, dielectrics
Flat square type	0–5						Iron, in-house standard oilproof

· Operating ambient temperature/humidity: -10–60°C, 10–90%RH (No condensation)

■ Features

1. Easy position adjustment

Detection settings based on workpiece presence/absence status memory and parameter.
"Minute positioning error" that may occur during installation can be corrected by teaching.
Labor and time required for sensor installation and adjustment can be saved, enabling reduction in work steps
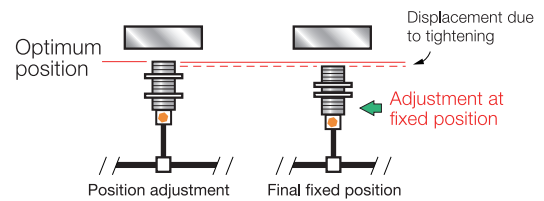
2. Space-saving

With the body of the same size as general-purpose sensors, ASLINKSENSOR proximity type incorporates the remote I/O function.
Space-saving system configuration is enabled, without necessity of a separate transmission unit.
The sensor can be directly connected to the transmission line. In addition, removal and replacement of sensor is easy.
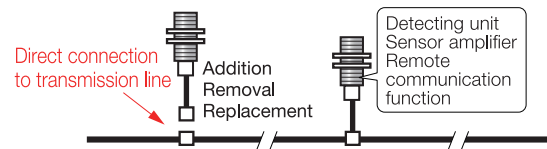
3. Diagnosis of sensor

The sensor enables transmission and receiving of a variety of information including wire disconnection, sensing level, analog data, threshold setting, as well as ON/OFF status.
Enabling real-time notification of abnormal point, resulting in downtime reduction.
Enabling preventive maintenance through monitoring of sensing status
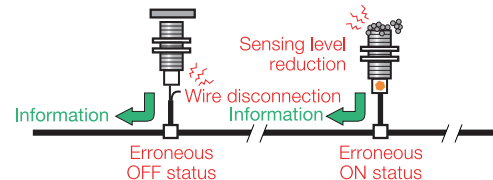
4. N.O./N.C. parameter setting

Normally-open/normally-closed mode can be set with the parameter.
Wiring change is not required, which contributes to reducing in-stock sensors.
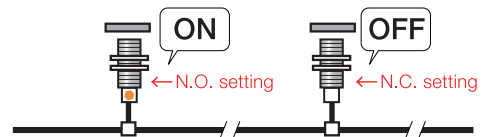
5. Single unit simplified replacement*

When the sensor has a fault, the user can replace the defective sensor with a new sensor simply by connecting a new one. The address and parameter settings of the defective sensor will be automatically restored in the new sensor after replacement. The user does not need to register individual settings again, resulting in maintenance time reduction.

* To use this function, it is necessary that both the master unit and sensor should support the "single unit simplified replacement" function. (This function will be supported soon.)
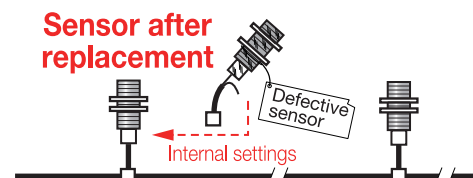
Comments/suggestions about AnyWire products: