

New

Square Air Nipper w/Sensor No.GT-NS20SR



GT-NS20SR

Air Nipper Operation Sensing.

Newly developed from the market requests.

Nipper with a sensor that detects the opening and closing of the blade and that monitors the operation.

Detects the magnet attached to the piston, and can monitor the operation status.

2 rails are available for sensor attachment.

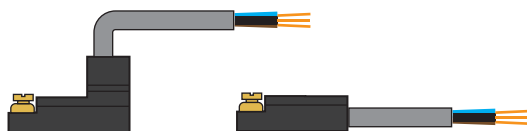
Sensor attachment rails are provided on both the left and right sides. Not only does a sensor provided as an accessory detect blade opening, but also with another sensor (sold separately), blade closing can also be detected, which enables even more accurate monitoring.

Convenient scale for adjusting the sensor position.

Scales are laser-engraved on the top surface of the body. Use them as a guide for fine adjustment of the sensor position.

L-type and straight type sensor are available.

Depending on where the nipper is installed, you can choose the sensor cord type (L-type or straight type), so that it does not get in the way (straight type is optional). The wiring is 3-wire type to take detection signals.



L-type (Standard accessory)

Straight type (Option)

Recommended to the following cases:

- ▶ We want to monitor cutting status and conduct **preventive maintenance**.
- ▶ Air supply pressure tends to be unstable due to the combination of other equipment. Therefore, we want to **be aware of cutting status so that cutting errors may not occur**.
- ▶ We want to **control according to the actual operating conditions**, not according to the operating time.
- ▶ As for the crimping and retaining, we want to **monitor the pressurization status and stabilize the quality of the finished product**.

Cautions

- When blades are replaced or air pressure is changed, the piston position changes and the sensor position needs to be adjusted again.
- For sensor position adjustment, the nipper blade must be stopped in the closed position. If the blade opening is to be detected, air must be supplied to the nipper. Please note the operation procedure.

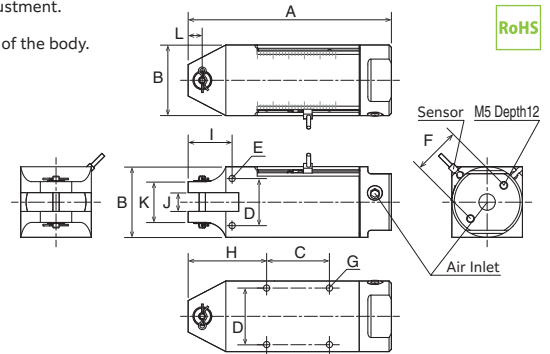
Model No.	Weight (g)	Air consumption (cm³/str.)	Operating air pressure (MPa)	RoHS
GT-NS20SR	404.5	230	0.5~0.6	✓

Air consumption : 0.6MPa, Included sensor : L-type (ACH02LS),
Operating ambient temperature : 0~60°C

Square Air Nipper w/Sensor

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- Nipper operation can be detected with the sensor. ●Scales on the top-surface of the body for sensor position adjustment. The screw holes for body mounting is on the bottom and the lateral side.
- The air inlet position can be adjusted 180 degrees, so it can be changed freely according to the mounting position of the body.
- Blades are OPTION.



Reference

Capacity ϕ (mm)			
Soft Plastic	Hard Plastic	Copper Wire	Steel Wire
7.0	5.0	2.6	2.0

Specifications

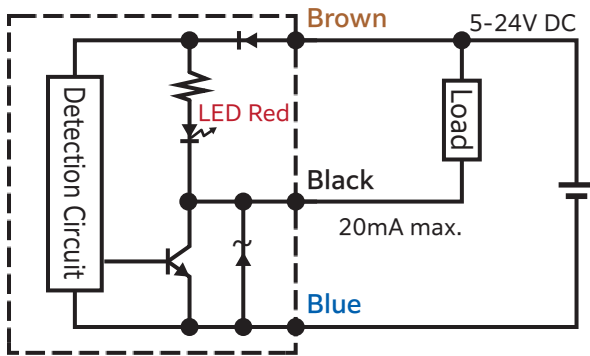
Code No.	Model No.	Size (mm)												Air Consumption (cm ³ /str.)	Air Pressure (MPa)	Weight (g)	Hose Coupling	JAN (4907587)
		A	B	C	D	E	F	G	H	I	J	K	L					
360034	GT-NS20SR	129	45	40	30	M5 Depth 10	30	M4 Depth 7	50	28	12	26	9	230	0.5~0.6	404.5	Rc 1/8	035141

※The capacity is for reference only when mounting a standard blade, and is subject to the blade type and the material of the product to cut.

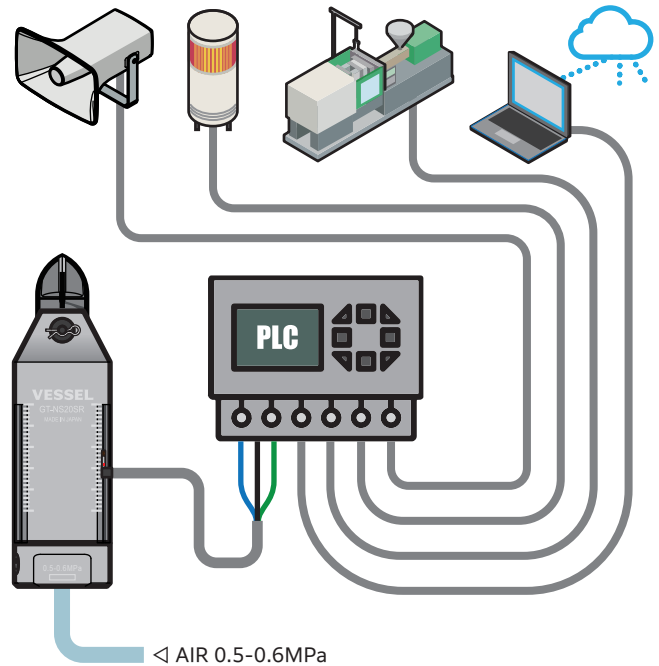
※Make sure in advance of the product dimensions for mounting in the dedicated or automated machine. (Frame outer dimension, screw size, distance between screws, etc.)

※Working air hose inner dia.: 4mm ※Overall length and Weight: Accessories not included. The tightening torque of a screw ("G" in the above diagram) to mount the nipper body is 1.5N·m.

Sensor Circuit Diagram



Wiring Example



Sensor Specifications

Power supply voltage	5 ~ 24V DC
Output current	20mA max.
Consumption current	8mA max.
Response time	16 μ sec or less
Output spec.	NPN open collector (ON in close proximity)
Withstand voltage	1000V AC (1 min., whole charging part, between cases)
Insulation resistance	250V DC (20M Ω or over, between cases, with an ohmmeter)
Operating ambient temp.	-20 $^{\circ}$ C ~ +85 $^{\circ}$ C (No dew condensation)
Operating ambient humidity	20 ~ 95%RH
Cable	3 wires ϕ 2.6mm Length: approx.1000mm
Mounting screws	Tightening torque 0.06N·m Use a screwdriver for (-)1.8x0.25
Protection class	IP67

Cautions

- Do not touch the blade. ●Always wear protective goggles and earplugs when working with the product. ●When installing or replacing blades or the nipper, be sure to shut off the power source. ●Do not use the product if any abnormality such as cracks, chipping, abrasion, or deformation is found. ●Do not use the product in which electricity is running. ●The product may cause vibration. ●Do not modify the product.

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