

However, for the models WCC, WFC and WHC (marked with %2 in the application table), use two S-pole sensors.

Application	Table	\bullet = can be installed.

Shape	Round Body	Rectangular Body	Shape	Round Body	Rectangular Body
Model No.	JES0000-02G JES0000-02GP JES0000-02LG JES0000-02LGP	JES0000-01G JES0000-01GP JES0000-01LG JES0000-01LGP	Model No.	JES0000-02G JES0000-02GP JES0000-02LG JES0000-02LGP	JES0000-01G JES0000-01GP JES0000-01LG JES0000-01LGP
SWJ2000	•	Not Applicable	WPF0100	Not A	pplicable
SWP050	•	Not Applicable	WPF0120	•	Not Applicable
SWP100	•	Not Applicable	WPF0160	•	Not Applicable
wcc 🖂	• * 2 (S-pole sensor only)	Not Applicable	WPF0200	Not Applicable	•
WCGT	•	Not Applicable	WPF0300	Not Applicable	•
WFC 🖂	● ※ 2 (S-pole sensor only)	Not Applicable	WPH0100	•	Not Applicable
WHC	• * 2 (S-pole sensor only)	Not Applicable	WPH0160	•	Not Applicable
WHGT	•	Not Applicable	WPH0200	Not Applicable	•
WKH200	•	Not Applicable	WPJ0120	Not A	pplicable
WKK100	•	Not Applicable	WPJ0160	•	Not Applicable
WKK200	•	Not Applicable	WPJ0200	Not Applicable	•
WPA0120	•	Not Applicable	WPJ0250	Not Applicable	•
WPA0160	•	Not Applicable	WPJ0300	Not Applicable	•
WPA0200	•	Not Applicable	WPJ0400	Not Applicable	•
WPA0250	۲	Not Applicable	WPS0160-C	•	Not Applicable
WPB0160	•	Not Applicable	WPS0200-C	•	Not Applicable
WPB0200	•	Not Applicable	WPT	•	Not Applicable
WPB0250	•	Not Applicable	WPW 🗔 -C	•	Not Applicable
WPE0160	•	Not Applicable	WVA 🗔 - M	•	Not Applicable
WPE0200	Not Applicable	•	WVB 🔤 - M	•	Not Applicable
WPE0300	Not Applicable	•	WVGTT	•	Not Applicable
WPE0400	Not Applicable	•			
WPE0500	Not Applicable	•			
WPE0800	Not Applicable	•			

Note: %2. Please use the S-pole sensor. (N-pole sensor cannot be used.)

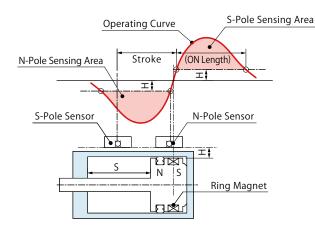
Model No. Indi	cation Application Table	Specifications	Electric Circuit Diagram	External Dimensions	Cautions	
----------------	--------------------------	----------------	-----------------------------	------------------------	----------	--

Specifications

Model No.	JES0000-02G S JES0000-02LG S	JES0000-01G S JES0000-01LG S	JES0000-02GP S JES0000-02LGP S	JES0000-01GP S JES0000-01LGP S
Body Shape	Round	Rectangular	Round	Rectangular
Output Specification	NF (ON when ir		PNP (ON when in proximity)	
Output Current	20mA	Max.	80mA	Max.
Current Consumption	8mA	Max.	8mA	Max.
Wiring Method	3-Wire			
Applicable Load	Relay, Programmable Logic Controller (PLC)			
Voltage	DC 5 ~ 24V			
Response Speed	16 µ sec or less			
Material	Case: GF Reinforced PBT Black Set Screw: Brass			355
Indicator Light	Red			
Withstand Voltage	AC1000V (1 minute / Packaged Charging Part / between the Case)			ne Case)
Insulation Resistance	DC250V (20M Ω or more in Megohms, between the Case)			
Operating Temperature	-20° $\sim +85^{\circ}$ (Make sure no condensation)			
Operating Humidity	20 ~ 95%RH			
Protection Grade	IP67			
Cable Length	ו ח 1m			

Performance Curve

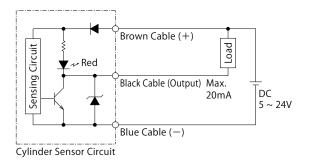
JES detects only the magnetic force that is vertical to the detection surface. The operating curve is shown below. Operating point is on the steep part of the operating curve, so even small stroke can be surely detected.



C Electric Circuit Diagram

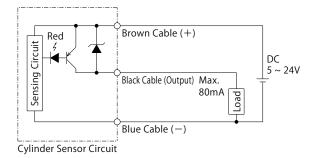
NPN Output

JES0000-02G , JES0000-02LG JES0000-01G , JES0000-01LG



PNP Output

JES0000-02GP . JES0000-02LGP JES0000-01GP . JES0000-01LGP .



Hand • Clamp Support Valve • Coupler Cautions • Others

Locating

Clamp Locating

Pallet Gripper _____WVA

Locating Pin Clamp SWP

High-Power Pull Stud Clamp WPT JES

FA Pneumatic Hole Clamp WKH

Lifting Hole Clamp SWJ

Ball Lock Cylinder

WKA Pneumatic

Robotic Hands WPW-C WPS-C

> WPA WPH WPP WPQ

Auto Switch Proximity Switch JEP

High-Power Pneumatic Hole Clamp

SWE

High-Power Pneumatic Swing Clamp WHE

High-Power Pneumatic

Link Clamp WCE

> Pneumatic Hole Clamp SWA

Pneumatic Swing Clamp

WHA Double Piston

Pneumatic Swing Clamp WHD

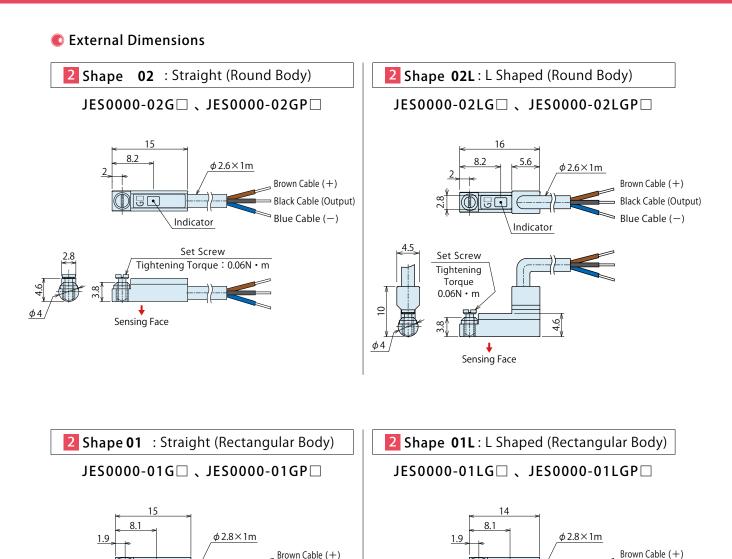
Pneumatic Link Clamp WC A

Air Flow Control Valve

BZW Manifold Block WHZ-MD

Black Cable (Output)

Blue Cable (-)



Brown Cable (+)

Blue Cable (-)

Black Cable (Output)

Æ

Set Screw

Tightening

Torque 0.06N • m

t

Sensing Face

4.5

6

¢

Indicator

¢, 🖯

Sensing Face

4.5

6

2.7

Indicator

Set Screw

Tightening Torque: 0.06N • m

Cautions



Locating

Clamp

Cautions

- Notes for Design
- 1) Check the Specifications
- Please use each product according to the specifications. The product may be damaged or malfunction if used outside the range of load or specifications.
- 2) Notes on Use in the Interlock Circuit
- When the sensor is used for an interlock signal that requires high reliability, please use a double interlock system by providing a mechanical protection function. Or by using another sensor together with the product. Also, please perform periodic maintenance and confirm proper operation.
- 3) Please avoid using loads that generate surge voltage.
- If driving a relay, put a Zener diode in parallel for surge protection.

Notes on Operating Environment

- 1) Never use the product in an atmosphere with explosive gases.
- Sensor for Air Cylinder is not designed to prevent explosion.
 Do not use the product in an atmosphere with explosive gases since it may cause serious explosions.
- 2) The product may malfunction if an intense magnetic field is applied to a pole body.
- Make sure to prepare shield measures when using in the following environments.
- Where large current and/or strong magnetic field are generated.
- Where noise occurs due to static electricity, etc.
- Where magnetic powder or dust such as iron powder occurs or scatters.
- Do not use the product in an environment where it is continuously exposed to coolant or chemical liquid.
- Although IEC standard IP67 structure is satisfied, please avoid using sensors in an environment where continuously exposed to coolant or chemical liquid. This may cause insulation failure or malfunction.
- 5) Do not use the product in an environment with oil or chemicals.
- If sensors are used in an environment with coolant or cleaning solvent, even in a short time, they may be adversely affected by improper insulation, malfunction due to swelling of potting resin and or hardening of electric cable.
- 6) Do not use the product in an environment with excessive vibrations or impacts.

Installation Notes

- 1) Electric Wiring Reverse Connection Protection
- Follow the electric circuit diagram on P.287 and make sure to connect properly. Never connect the power reversely.
- 2) Tighten sensors with appropriate tightening torque.
- Use the set screw mounted on the sensor body and tighten it with the following torque.
 JES0000 : 0.06N • m
- 3) Wiring
- Do not damage the cables. Damaged, forcibly bended, stretched, winded, load applied or pinched cables will cause fire, electric shock, and/or malfunction due to electric leakage and/or continuity failure.
- Do not apply excessive stress on the cable port of the sensor.
- Minimum bending radius of the cable port is R7.
- If cables are to move, fix the middle of the cables so that no stress is applied to the cable port.
- 4) Mounting position of the sensor should be adjusted by checking actual operating state.

	Hand • Clamp
)	Support
	Valve • Coupler
t	Cautions • Others

Loca Pin C	ting Ilamp
	SWP
	-Power Stud Clam
	WPT

Pallet Gripper

WVA

Pull Stud Clamp		
WPT		
JES		
FA Pneumatic		

Hole Clamp WKH

Lifting Hole Clamp SWJ

Ball Lock Cylinder WKA

Pneumatic Robotic Hands WPW-C WPS-C WPA WPH WPP

Auto Switch Proximity Switch JEP

WPO

High-Power Pneumatic Hole Clamp

Swing Clamp WHE

High-Power Pneumatic

Link Clamp WCE

> Pneumatic Hole Clamp

> > SWA

Pneumatic Swing Clamp WHA

Double Piston Pneumatic Swing Clamp

WHD

Pneumatic Link Clamp WCA

Air Flow Control Valve

BZW Manifold Block

288R

Cautions

- Notes on Handling
- 1) It should be operated by qualified personnel.
- The hydraulic and pneumatic equipment should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
- ② Before the product is removed, make sure that the above-mentioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- ③ After stopping the product, do not remove until the temperature drops.
- ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.
 Never modify the product as it contains a powerful magnet.
- Keep more than one meter away from this product if you have a heart pacemaker, etc. It may be malfunctioned by strong magnetism.
- This sensor is made by ASA Electronics Industry Co. Ltd.
 Please contact us or ASA Electronics Industry for further inquiries.

Maintenance and Inspection

- 1) Removal of the Product and Shut-off of Pressure Source
- Before removing the product, make sure that safety devices and preventive devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- Make sure there is no trouble/issue in the bolts and respective parts before restarting.
- 2) Never touch terminals while the power is on.
- Otherwise it will cause electric shock, malfunction and damage to the sensor for air cylinder.
- 3) Retightening of Set Screw
- When mounting position of the sensor for air cylinder is shifted due to looseness of set screw, retighten it after adjusting the mounting position.
- 4) Check if the electric cable is damaged or not.
- Damaged cables may cause insulation failure.
 Replace a sensor for air cylinder or repair the reed if the electric cable is damaged.
- 5) Product Storage
- The products should be stored in the cool and dark place without direct sunshine or moisture.

|--|

Electric Circuit

Diagram

External Dimensions

Cautions



Model No. Indication

Application Table

Specifications

Locating + Clamp

-

Locating

land • Clam

Support

Valve • Coupler

Cautions • Others

Pallet Gripper WVA

Locating Pin Clamp

SWP

High-Power Pull Stud Clamp WPT JES

FA Pneumatic Hole Clamp WKH

Lifting Hole Clamp SWJ

Ball Lock Cylinder WKA

Pneumatic Robotic Hands WPW-C WPS-C

WPA WPH WPP WPQ

Auto Switch Proximity Switch JEP

High-Power Pneumatic Hole Clamp

SWE

High-Power Pneumatic Swing Clamp WHE

High-Power Pneumatic Link Clamp

WCE Pneumatic Hole Clamp

SWA

Pneumatic Swing Clamp WHA

Double Piston Pneumatic Swing Clamp

WHD

Pneumatic Link Clamp WCA

Air Flow Control Valve BZW

Manifold Block WHZ-MD

Cautions

Notes on Handling

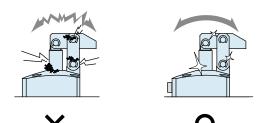
- 1) It should be operated by qualified personnel.
- The hydraulic machine and air compressor should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
- ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
- ② Before the product is removed, make sure that the above-mentioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
- ③ After stopping the product, do not remove until the temperature drops.
- ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- Do not touch a clamp (cylinder) while it is working.
 Otherwise, your hands may be injured.



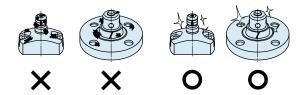
- 4) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

Maintenance and Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
- Before removing the product, make sure that the safety devices are in place. Shut off the pressure and power source and make sure no pressure exists in the air and hydraulic circuits.
- Make sure there is no trouble/issue in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the piston rod and plunger.
- If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage.



- Regularly clean the reference surfaces (taper reference surface and seating surface) of locating products (SWT/SWQ/SWP/VRA/ VRC/VX/VXE/VXF/WVS/VWH/VWM/VWK).
- Locating products (except VRA/VRC/VX/VXE/VXF and SWR without air blow port) can remove contaminants with the cleaning function. When installing a workpiece or a pallet, make sure there are no contaminants such as thick sludge.
- Continuous use with dirt on components will lead to locating failure, fluid leakage and malfunction.



- 4) Regularly tighten pipe, mounting bolt, nut, snap ring, cylinder and others to ensure proper use.
- 5) Make sure the hydraulic fluid has not deteriorated.
- 6) Make sure there is a smooth action without an irregular noise.
- Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
- The products should be stored in the cool and dark place without direct sunshine or moisture.
- 8) Please contact us for overhaul and repair.

Warranty



Warranty

- 1) Warranty Period
- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.
- 2) Warranty Scope
- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense.
 Defects or failures caused by the following are not covered.
- ① If the stipulated maintenance and inspection are not carried out.
- ② Failure caused by the use of the non-confirming state at the user's discretion.
- ③ If it is used or operated in an inappropriate way by the operator.
 (Including damage caused by the misconduct of the third party.)
- ④ If the defect is caused by reasons other than our responsibility.
- (5) If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
- ⑥ Other caused by natural disasters or calamities not attributable to our company.
- ⑦ Parts or replacement expenses due to parts consumption and deterioration.

(Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

Clamp

Locating

Locating

Hand • Clamp

Support

Valve • Coupler

Cautions • Others

Cautions Installation Notes Maintenance/ Inspection Warranty

Company Profile

Our Products History

Index Search by Alphabetical Order

Sales Offices



Sales Offices

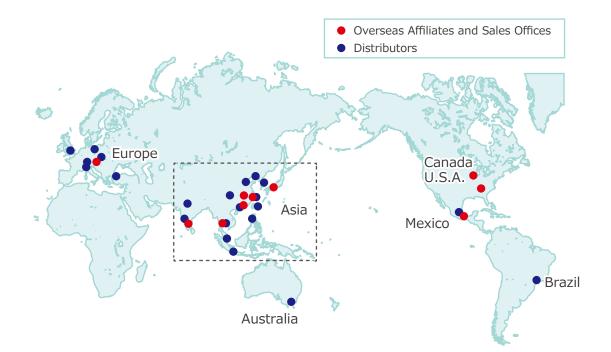
Sales Offices across the World

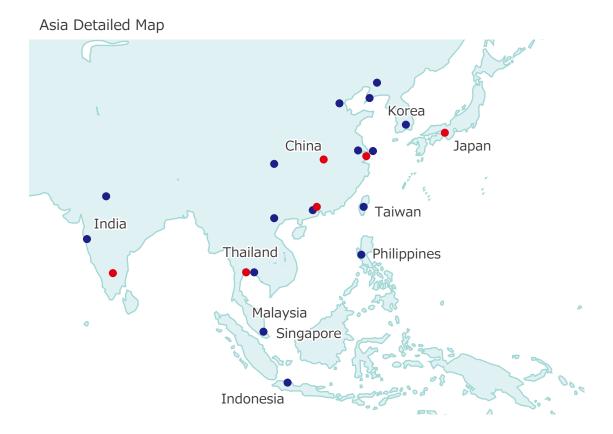
Japan	KOSMEK LTD. HEAD OFFICE	TEL. +81-78-991-5162 FAX. +81-78-991-8787 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241
USA	KOSMEK (USA) LTD. Overseas Affiliate	TEL. +1-630-620-7650 FAX. +1-630-620-9015 650 Springer Drive, Lombard, IL 60148 USA
USA	KOSMEK (USA) LTD. Atlanta Branch Office	TEL. +1-630-620-7650 303 Perimeter Center North, Suite 300, Atlanta, GA 30346 USA
Mexico	KOSMEK (USA) LTD. Mexico Branch Office	TEL. +52-442-851-1377 Av. Santa Fe 103, Int. 59, col. Santa Fe Juriquilla, Queretaro, QRO, 76230, Mexico
Europe	KOSMEK EUROPE GmbH Overseas Affiliate	TEL. +43-463-287587 FAX. +43-463-287587-20 Schleppeplatz 2 9020 Klagenfurt am Wörthersee Austria
	KOSMEK (CHINA) LTD. Overseas Affiliate	TEL.+86-21-54253000 FAX. +86-21-54253709 Room601, RIVERSIDE PYRAMID No.55, Lane21, Pusan Rd, Pudong Shanghai China
China	KOSMEK (CHINA) LTD. Dongguan Office Overseas Affiliate (Sales Office)	TEL.+86-769-85300880 Room301,AcerBuilding No.15,Dezheng(W)Road,Changan Town Dongguan Guangdong 523843.,P.R.China
	KOSMEK (CHINA) LTD. Wuhan Office Overseas Affiliate (Sales Office)	TEL.+86-27-59822303 A-502 Jingkai Future City,Zhuankou Economic Development Zone Wuhan Huibei
India	KOSMEK LTD INDIA Branch	TEL. +91-9880561695 4A/Old No:649, Ground Floor, 4th D cross, MM Layout, Kavalbyrasandra, RT Nagar, Bangalore -560032 India
Thailand	KOSMEK Thailand Representative Office Representative Office	TEL. +66-2-300-5132 FAX. +66-2-300-5133 67 Soi 58, RAMA 9 Rd., Phatthanakan, Suanluang, Bangkok 10250, Thailand
Taiwan	FULL LIFE TRADING CO., LTD. Taiwan Exclusive Distributor	TEL. +886-2-82261860 FAX. +886-2-82261890 16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511
Philippines	G.E.T. Inc, Phil. Philippines Exclusive Distributor	TEL.+63-2-310-7286FAX. +63-2-310-7286Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427
Indonesia	PT. Yamata Machinery Indonesia Exclusive Distributor	TEL. +62-21-29628607 FAX. +62-21-29628608 Delta Commercial Park I, Jl. Kenari Raya B-08, Desa Jayamukti Kec. Cikarang Pusat Kab. Bekasi 17530 Indonesia

Sales Offices in Japan

Head Office Osaka Sales Office Overseas Sales	TEL. 078-991-5162 FAX. 078-991-8787 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, 651-2241, Japan
Tokyo Sales Office	TEL. 048-652-8839 FAX. 048-652-8828 81, 4-chome, Onari-cho, Kita-ku, Saitama City, Saitama, 331-0815, Japan
Nagoya Sales Office	TEL. 0566-74-8778 FAX. 0566-74-8808 10-1, 2-chome, Misono-cho, Anjo City, Aichi, 446-0076, Japan
Fukuoka Sales Office	TEL. 092-433-0424 FAX. 092-433-0426 8-10-101, 1-chome, Kamimuta, Hakata-ku, Fukuoka City, Fukuoka, 812-0006, Japan

Global Network









FOR FURTHER INFORMATION ON UNLISTED SPECIFICATIONS AND SIZES, PLEASE CALL US.
 SPECIFICATIONS IN THIS CATALOG ARE SUBJECT TO CHANGE WITHOUT NOTICE.