

③WL Spring constant 1N/mm {0.1kgf/mm}												4		2																	
l day	WL	.25	WL	.30	WI	L35	WI	_40	WL	.45	WI	.50	WL	.55	WI	L60	WI	.65	WI	.70	D₁	M×P		M×P φ		φ D ₂					
D amaxF	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F	"	IVI /	\I	φυ2							
5																						10		7							
6	0.65	.65 10	0.65 10 0.	10 0	10	0 0 7	0.7	0.7	0.7	0 0 7	12	0.7	14	0.7	16	0.75	18	0.75	20	0.75	22	0.8	24	0.8	26	 0.85	28	6	10	1.5	8
8	0.00			0.7	12	0.7	14	0.7	10	0.73	10	0.73	20	0.73	22	0.0	24	0.0	20	0.00	20	U	12	1.0	10						
10																						14		12							

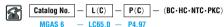
Spring load (N) = Spring constant (N/mm) \times deflection F(mm) {N}=kgf \times 9.80665

■①Misfeed pin

В	Catalog N	lo.	1	P	Base unit price	Volume	discount (ınit price
В	Туре	D	L	0.01mm increments	1∼4 pieces	5~9	10~19	20~50
10		5	50 60 70 80 90 100	2.00~4.97				
10	MGAS	6	50 60 70 80 90 100	2.00~5.97				
15		8	50 60 70 80 90 100	3.00~7.97				
15		5	60 70 80 90 100	2.00~4.97				
15	MGAL	6	60 70 80 90 100	2.00~5.97	l –			L
21		8	60 70 80 90 100	3.00~7.97	Quot		atioı	n)
21		10	60 70 80 90 100 110	3.00~9.97	-			
27		5	60 70 80 90 100	2.00~4.97				
21	MGAX	6	60 70 80 90 100	2.00~5.97				
32	WICHA	8	70 80 90 100	3.00~7.97				
		10	70 80 90 100 110	3.00~9.97				







Alteration	Code	Spec. 10	Code
	PC	$ \begin{array}{c} \text{Tip diameter change} \\ \text{PC} \geq \frac{P \min.}{2} \\ \text{0.01mm increments} \end{array} \\ \begin{array}{c} \text{Depending on the selected} \\ \text{PC dimension, B dimension} \\ \text{may be shortened.} \\ \text{P (PC)} \\ \text{Bmax.} \end{array} $	<u>ح</u>
BC	BC	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	notation
LC LC	LC	L dimension change (B)+30≦LC <l 0.1mm="" 30="" adjusted="" and="" between="" difference="" dimension="" if="" increments="" is="" l="" l-30.<="" length="" less,="" or="" td="" tip="" to="" ③=""><td><u>o</u>r</td></l>	<u>o</u> r

Alteration	Code	Spec.	1Cod
2	нс	Head diameter change D≦HC <d+2 0.1mm increments</d+2 	6
	NTC	Elimination of tip taper	uotation
	PKC	Tip diameter tolerance change $P_0^{+0.01} \Rightarrow _0^{+0.005}$	O

Sensor units (2)(3)(4)(5)(6))

Catalog N	lo.		3	Base unit price	Volume discount unit price				
Type	D	Type		1∼4 sets	5~9	10~19	20~50		
MFG	5 6 8 10	WL		35 40 60 65	45 70	C	uot	atio	D







●How to use

The photoelectric misfeed sensor unit uses a photo microsensor (with built-in amplifier) in the switch. When an object blocks the light beam, the sensor turns ON and an electric current flows. This electric current activates the relay to stop the press machine. However, unlike ordinary switches, this sensor can not directly open or close a circuit. It therefore cannot be used to control a unit directly.

Wiring

Wire the unit as shown in the left figure. The power supply voltage for the photo microsensor is DC5~24V. Connect the power supply wires to the \oplus and \ominus terminals of the sensor.Then connect the \oplus and OUT terminals of the sensor to the relay input terminals. (Use a relay with a current consumption of 100mA or less) However, it is difficult to obtain a DC power supply at a press working site. This photoelectric microsensor can be easily installed by using a commercially available press-safety device.

●Instructions for proper use

- 1. Be sure to use a relay with a current consumption of 100mA or less for the output
- 2. Keep the sensor unit away from high voltage lines and power lines wherever possible. Otherwise induction may cause the unit to malfunction, resulting in machine damage.
- 3. If there are devices generating high surges (motors, welders and other spark-generating devices), be sure to connect a surge absorber in the surge source.
- 4. Because the sensor is a photoelectric device, it may be affected by reflected external light. Avoid installing in environments where such light is present wherever possible.
- 5. Because the photoelectric microsensor is activated by light, keep the light emitting and receiving faces clean by wiping them with a dry cloth.
- 6. To attach the photo microsensor, use M3.0 screws and control the tightening torque to 5.5kg·cm or less.
- 7. Be sure to use an **EE-1001** connector.

■Component parts (individual parts)

Control device

Power supply voltage (DC5 ~ 24V)

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Part	Name	Misfeed pin	Catalog	No.	Base unit price	Volume discount unit pric				
No.	Naille	1	Type	D ₂ ·M	1∼4 pieces	5∼9	10~19	20~50		
		D 5		7						
2	Switch bar	D 6	GSB	8						
(2)	Switch bai	D 8	UOD	10						
		D10		12						
		D 5		10		Quot	ation			
(4)	Screw plug	D 6	GM	10		Quot	ation			
4	outow plug	D 8	um	12						
		D10		14						
(5)	Photoelectric element	_	EE—SX670							
6	Connector	_	EE-10	01						



Catalog No. EE-SX670



For details of spring for misfeed pin WL (3), refer to P.1401.

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