

③WL Spring constant 1N/mm {0.1kgf/mm}													(2	D	2																												
Ja l	WL25 WL30		WL30 WL35		WL40 WL		VL45 WL50		WL55		WL60		WL65		WL70		n	M×P		/ D																							
D	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	D ₁	IWI /	\r	ϕD_2																			
5																						10		7																			
6	0.65 10	10 0	10 0 7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	12	0.7	14	0.7	16	0.75	18 0.7	0.75	0.75 20	0.75	22	0.8	24	0.8	26	0.85	28	6	10	1.5	8
8		0.65 10	10	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	0	12	1.0	10																		
10																						14		12																			

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

■1 Misfeed pin

В	Catalog N	lo.	1		Base unit price			
	Type	D	_	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				
21	WUAL	8	60 70 80 90 100	3.00~7.97	l IG	luot	atio	า)
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	INIUAA	8	70 80 90 100	3.00~7.97				
32		10	70 80 90 100 110	3.00~9.97				









Alteration	Code	Spec.	1Code
	PC	Tip diameter change $PC \cong \frac{Pmin.}{2}$ Depending on the selected PC dimension, B dimension may be shortened. 0.01mm increments $P(PC)$ Bmax.	
BC	ВС	Tip length change Y+2≦BC≦Bmax. BC≦L(C) -30 0.1mm increments $0.00000000000000000000000000000000000$	notation
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="" ●=""><td>O</td></l>	O

Alteration	Code	Spec.	1Cod
2	нс	Head diameter change D≦HC <d+2 0.1mm="" increments<="" th=""><th>6</th></d+2>	6
	NTC	Elimination of tip taper	Quotation
	PKC	Tip diameter tolerance change $P^{+0.01}_{0} \Rightarrow ^{+0.005}_{0}$	

■Sensor units (23456)

Catalog N	lo.		3	Base unit price Volume discount unit price			
Type	D	Type	l	1∼4 sets	5~9	10~19	20~50
	5	WL					
MFG	6		25 30 35 40 45		luot	atior	
iiii u	8		50 55 60 65 70	_ <u>L</u>	(uot	atioi	י
	10						









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 Power supply voltage 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)

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	Part	Name	Misfeed pin	Catalog No.		Base unit price	Volume discount unit price				
- 1	No.	Name	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)	SWILCII Dai	D 8	uob	10						
			D10		12						
			D 5		10		Quot	otion			
	(4)	Screw plug	D 6	GM	10		Quot	auon			
	4)		D 8	GIVI	12						
			D10		14						
	(5)	Photoelectric element	_	EE-SX	670						
	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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