

# CONTACT TYPE MISFEED SENSOR UNITS



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The quantity discount rate is also applicable to alteration cost.  
All price & lead time are to be quoted.

RoHS

P	P ≥ 2.00	1.00 ≤ P < 2.00	P < 1.00
Y	3	2	1
G	15°	10°	10°

**④ Switch EMF**

**How to connect**  
Connect the lead wire to the sensor input terminal (contact type) of a commercially available misfeed sensor controller. (Refer to the MFSF connection instructions on P.528.)

**Working voltage**  
Use the sensor within a range of 5~15V.

Part A [Normal]

[Misfeed]

Part No.	Name	Catalog No.	Material	Part No.	Name	Catalog No.	Material
①	Misfeed pin	SMAS SMAL SMAX	M Equivalent to SKD11 H 60 ~ 63HRC	③	Screw plug	MSW	—
②	Spring for misfeed pin	WL	—	④	Switch	EMF	M Polycarbonate

WL Spring constant 1N/mm {0.1kgf/mm}											
①	D4		D5		D6		D8		D10		φ D <sub>1</sub>
	6	6	6	6	8	10	10	10	10		
Type	ℓ	d	max.F	d	max.F	d	max.F	d	max.F	d	max.F
② WL	25	0.65	10	0.65	10	0.75	10	0.9	10	0.9	10
	30	0.7	12	0.7	12	0.8	12	0.9	12	0.9	12
	35	0.7	14	0.7	14	0.8	14	0.9	14	0.9	14
	40	0.7	16	0.7	16	0.8	16	0.9	16	0.9	16
	45	0.75	18	0.75	18	0.85	18	1.0	18	1.0	18
	50	0.75	20	0.75	20	0.85	20	1.0	20	1.0	20
	55	0.75	22	0.75	22	0.85	22	1.0	22	1.0	22
	60	0.8	24	0.8	24	0.9	24	1.0	24	1.0	24
	65	0.8	26	0.8	26	0.9	26	1.1	26	1.1	26
	70	0.85	28	0.85	28	1.0	28	1.1	28	1.1	28
③ MSW	M8×P1.25		M10×P1.5		M10×P1.5		M12×P1.5		M14×P1.5		

Spring load (N) = Spring constant (N/mm) × deflection F (mm) (N) = kgf × 9.80665

## ① Misfeed pin

B	Catalog No.		L							P	Base unit price	Volume discount unit price			
	Type	D	4	5	6	7	8	9	10	0.01mm increments	1~4 pieces	5~9	10~19	20~50	
10	SMAS	4	50	60	70	80				1.00~3.97					
		5	50	60	70	80	90	100	2.00~4.97						
		6	50	60	70	80	90	100	2.00~5.97						
15	SMAL	4	60	70	80				1.00~3.97						
		5	60	70	80	90	100	2.00~4.97							
		6	60	70	80	90	100	3.00~7.97							
21	SMAX	10	60	70	80	90	100	110	3.00~9.97						
21		4	60	70	80			1.20~3.97							
27	SMAX	5	60	70	80	90	100		2.00~4.97						
		6	60	70	80	90	100		2.00~5.97						
32	SMAX	8	70	80	90	100		3.00~7.97							
		10	70	80	90	100	110	3.00~9.97							

**Order** Catalog No. — L — P  
SMAS 6 — 80 — P3.00

**Delivery** 5 Days Express T Express A  
For area out of Singapore, please refer to Pi.

**Alterations** Catalog No. — L(LC) — P(PC) — (BC·HC·NTC·PKC)  
SMAS 8 — LC79 — PC2.50

Alteration	Code	Spec.	1Code
	PC	Tip diameter change PC ≥ P <sub>min</sub> ≥ 0.50 0.01mm increments	Quotation
	BC	Tip length change Y + 2 ≤ BC ≤ Bmax. BC ≤ L(LC) - 30 0.1mm increments	
	LC	L dimension change (B) + 30 ≤ LC < L 0.1mm increments If difference between L dimension and tip length is 30 or less, tip length is adjusted to L - 30.	

Alteration	Code	Spec.	1Code
	HC	Head diameter change D ≤ HC < D + 2 0.1mm increments	Quotation
	NTC	Elimination of tip taper	
	PKC	Tip diameter tolerance p + 0.01 q + 0.005 change	

## ②③④ Sensor units

Catalog No.	②							Base unit price	Volume discount unit price				
	Type	D	Type	ℓ				1~4 sets	5~9	10~19	20~50		
MFL	WL	4	25	30	35	40	45	50	55	60	65	70	Quotation
		5											
		6											
		8											
		10											

**Order** Catalog No. — ②Type · ℓ  
MFL 6 — WL 60

**Delivery** 3 Days  
For area out of Singapore, please refer to Pi.

## ④ Component parts (individual parts)

Part No.	Name	Catalog No.	Base unit price	Volume discount unit price		
			1~4 pieces	5~9	10~19	20~50
④	Switch	EMF		Quotation		

Refer to the corresponding pages for details of the following components.

Part No.	Name	Catalog No.	Page
②	Spring for misfeed pin	WL	P.996
③	Screw plug	MSW	P.687

**Order** Catalog No. — EMF

**Delivery** SGP Stock 3 Days  
For area out of Singapore, please refer to Pi.

Stocks Availability Subjected to Prior Sales.