

Магнитные датчики FC, MS

Технические характеристики

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High compact Magnetic Sensor

FC series

磁簧傳感器

- High compact 堅固耐用
- High Reliability 高穩定性
- High Noise Resistance 高抗干擾力
- Short circuit protection DC type附短路保護
- High protection class IP-67 高防水等級IP-67



● Model guiding / 型號索引

Ex. <u>FC</u> - <u>20</u> <u>R</u> - <u>H</u> - <u>2M</u>					
	1	2	3	4	5
1	Series (系列名稱)		「FC」：Magnetic sensor 「MS」：M8 Tubular type		
2	Model (形式)		「20」：Plastic housing 「11」：Plastic housing 「05」：Plastic housing 「08」：M8		
3	Output method (輸出方式)		「R」：Reed contact 「RE」：Output protection 「RN」：Reed contact NPN 「RP」：Reed contact PNP 「N」：NPN output 「P」：PNP output 「D」：Two wire solid state output		
4	Sensitivity (感度) or Output status		「Non」：Standard sensitivity (< 80 Gauss) 「H」：High sensitivity (< 40 Gauss) 「L」：Low sensitivity (< 120 Gauss) 「B」：NC type		
5	Connection (出線方式)		「2M」：2m cable/ 「1M」：1m cable/ 「4M」：4m cable 「PG」：M8 connector Lead wire/ 「PE」：Plastic connector Lead wire		

※ Notice for use / 選型使用注意事項 (*)

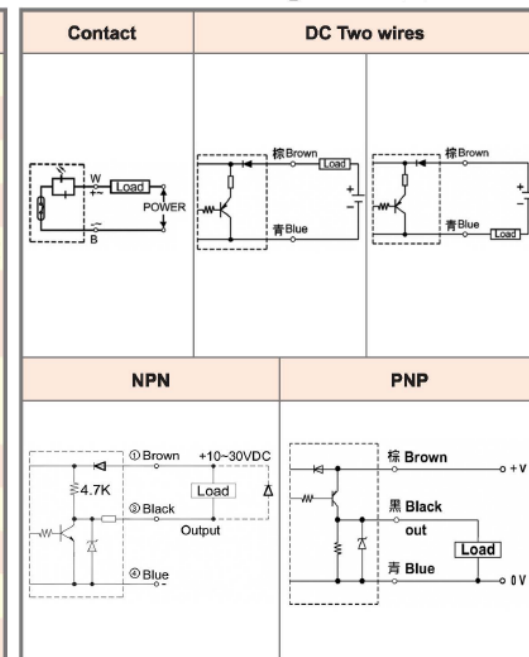
1. 所有型號都有輸出短路及極性保護，除「FC-xxR」沒輸出短路保護。
2. 請配合氣缸磁環選用適當感度的機型。「感度太高」動作點會提前或易受帶磁外物干擾，「感度太低」無動作或訊號漏失。
3. 「2線式」最好不要超過2個以上串聯使用以免無法推動負載。(因每個都有輸出壓降約3.0V)
4. 「FC-xxR」及「FC-xxRE」極性反接仍可感應輸出但指示燈不會亮，須更換極性即可正常動作，其他型極性接反則無動作。

1. All model with Output short circuit & Polarity reversed protection, excepted 「FC-xxR」.
2. Optimum sensitivity of sensor is required, if it is too high to be turned on too early or be interrupted, if it is too low to lose signal.
3. It maybe cannot operate the load, if series connection over 2 pieces of 「2 wire type」 sensor.
4. 「FC-xxR」 & 「FC-xxRE」 may turn on load but cannot turn on operating LED, other type don't work , if power polarity is reversed.

● General data / 共同規格

Specification	規格	Data	
Sensor	感應器	Reed sensor	Hall sensor
Contact rated	接點功率	10W max.	---
Output current	輸出電流	50mA or 150mA or 500mA max.	50mA or 150mA max.
Current consumption	消耗電流	non	8mA max.
Output protection	輸出保護	*	Short circuit & Polarity reversed
Vibration resistance	耐震動	50g (490m/S ² / (55 ~ 2000 Hz)) IEC-60068-2-6	60g (588m/S ² / (55 ~ 2000 Hz)) (IEC-60068-2-6)
Shock resistance	耐衝擊	100g (980m/S ² with 11ms) (IEC-60068-2-27)	120g (1176m/S ² with 11ms) (IEC-60068-2-27)
Protection class	保護等級	IP-67 (IEC-60529)	
EMC Interference	電磁相容	IEC 61000-6-4	
Dielectric strength	電介強度	2.5kv / 1 minute min.	
Insulation strength	絕緣強度	100 MΩ / 500vdc	
Operation circum.	工作環境	-25°C ~ +85°C : 100%RH max. (Condensation permitted)	

● Connection diagram / 接線圖



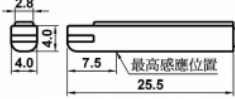
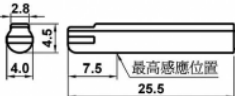
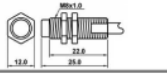
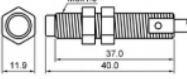
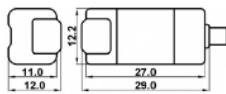
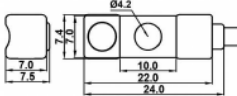
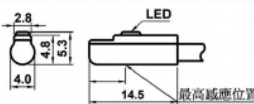
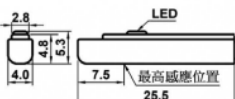
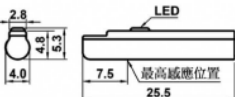
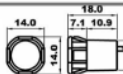
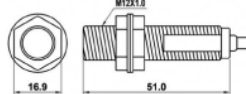
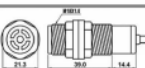
● Specification / 規格

Series	Model	Wires	Operating voltage	Output method	Voltage drop	Leakage current	Output current	Sensitivity (Gauss)	Response frequency	Sensor	Housing material	Outline	
FC-20	FC-20R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-20RE	2c/4Φ	5~60VDC	Contact	3.0V	non	150mA						
	FC-20RN	3c/4Φ	5~30VDC	NPN	3.0V	non							
	FC-20RP	3c/4Φ	5~30VDC	PNP	3.0V	non		150mA	<40	5KHz			Hall sensor
	FC-20D	2c/4Φ	10~30VDC	T	3.5V	0.5mA							
	FC-20N	3c/4Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-20P	3c/4Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-04	FC-04R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-04RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-04D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-04N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-04P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-05	FC-05R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-05RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-05D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-05N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-05P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-10	FC-10D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5KHz	Hall sensor	ABS		
	FC-10N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-10P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-11	FC-11R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-11RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-11D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-11N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-11P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-36	FC-36D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	50mA	<40	5KHz	Hall sensor	Intensive Nylon		
	FC-36N	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-36P	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-37	FC-37D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	50mA	<40	5KHz	Hall sensor	Intensive Nylon		
	FC-37N	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-37P	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-47	FC-47R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-47RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-47D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-47N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-47P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-48	FC-48R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-48RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-48D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-48N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-48P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-50	FC-50R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-50RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-50D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-50N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-50P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-50S	FC-50SR	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon		
	FC-50SRE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-50SD	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40
	FC-50SN	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA							
	FC-50SP	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA							
FC-53	FC-53R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed	Intensive ABS		
	FC-53D	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5KHz	Hall			
FC-59	FC-59R	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed sensor	Intensive Nylon		
	FC-59RE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA						
	FC-59D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5KHz	Hall sensor			
	FC-59N	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA							

High compact Magnetic Sensor

FC series 磁簧傳感器

● Specification / 規格

Series	Model	Wires	Operating voltage	Output method	Voltage drop	Leakage current	Output current	Sensitivity (Gauss)	Response frequency	Sensor	Housing material	Outline			
FC-06	FC-06R	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed	Intensive Nylon				
	FC-06RE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA								
	FC-06D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5K Hz	Hall sensor					
	FC-06N	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-06P	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-07	FC-07R	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed	Intensive Nylon				
	FC-07RE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA								
	FC-07D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5K Hz	Hall sensor					
	FC-07N	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-07P	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
MS-08	MS08-10N	3c/4Φ	5~30VDC	NPN	0.8V	0.1mA	150mA	<40	5K Hz	Hall	Cu				
	MS08-10P	3c/4Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-08	FC-08R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed	Cu				
	FC-08D	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40	5K Hz	Hall sensor
	FC-08N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA									
FC-20z	FC-20zR	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H/N/L	200Hz	Reed	Die cast Zn alloy				
	FC-20zD	2c/4Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40	5K Hz	Hall sensor
	FC-20zN	3c/4Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-20zP	3c/4Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-05z	FC-05zR	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H/N/L	200Hz	Hall sensor	Die cast Zn alloy				
	FC-05zD	2c/3Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40	5K Hz	
	FC-05zN	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-05zP	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-36z	FC-36zD	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	50mA	<40	5K Hz	Hall sensor	Die cast Zn alloy				
	FC-36zN	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-36zP	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-58z	FC-58zR	2c/2.5Φ	5~120VDC/AC	Contact	3.0V	non	100mA	<120	200Hz	Reed	Die cast Zn alloy				
	FC-58zRE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA								
	FC-58zRN	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA	150mA								
	FC-58zRP	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-06z	FC-06zR	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed	Die cast Zn alloy				
	FC-06zRE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA								
	FC-06zD	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5K Hz	Hall sensor					
	FC-06zN	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-06zP	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-07z	FC-06zR	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed	Die cast Zn alloy				
	FC-07zRE	2c/2.5Φ	5~60VDC	Contact	3.0V	non	50mA								
	FC-07zD	2c/2.5Φ	10~30VDC	T	3.5V	0.5mA	150mA	<40	5K Hz	Hall sensor					
	FC-07zN	3c/2.5Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-07zP	3c/2.5Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-T12	FC-T12R	2c/3Φ	5~240VDC/AC	Contact	3.0V	non	100mA	<40	200Hz	Reed sensor	PC				
	FC-T12RE	2c/3Φ	5~60VDC	Contact	3.0V	non	50mA								
FC-12	FC-12R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed	Cu				
	FC-12D	2c/4Φ	10~30VDC	T	3.5V	0.5mA	150mA						<40	5K Hz	Hall sensor
	FC-12N	3c/4Φ	5~30VDC	NPN	0.8V	0.1mA									
	FC-12P	3c/4Φ	5~30VDC	PNP	0.8V	0.1mA									
FC-18	FC-18RE	2c/4Φ	5~60VDC	Contact	3.0V	non	500mA	<40	200Hz	Reed sensor	PP				
	FC-18N	3c/4Φ	5~30VDC	NPN	0.8V	0.01mA	150mA								

● Fixed parts / 固定帶

PNS/PNA (for FC-20)

Band
PNS - 16

Diameter of cylinder
16 : Ø16.0
20 : Ø20.0
150 : Ø150.0

Material of cylinder
S : Stainless steel
A : Aluminum Alloy

15.5
15.0
9.0
96.0

BES/BEA (for FC-04)

1.0
9.0
M3x0.5

DT (for FC-07)

M4內六角止付螺絲
A
B
Ø4.10

型號	A	B
DT-07-1	7.90	4.0Φ~6.0Φ
DT07-2	10.4	8.0Φ~10.0Φ
DT07-3	15.1	12.0Φ~14.0Φ

PI (for FC-20)

Model	A	Inner dia.
PI-1	11.20	32~40Φ
PI-2	14.10	50~63Φ
PI-3	15.50	80Φ
PI-4	16.30	100Φ
PI-5	19.80	125Φ
PI-6	26.50	150Φ

A

BSS/BSA (for FC-48) / BES/BEA (for FC-04)

Alumina alloy cylinder			Stainless steel cylinder		
Model	Inner dia.	Outer dia.	Model	Inner dia.	Outer dia.
BSA-20 / BEA-20	20Φ	25Φ	BSS-06 / BES-06	6Φ	8.5Φ
BSA-25 / BEA-25	25Φ	30Φ	BSS-08 / BES-08	8Φ	10Φ
BSA-30 / BEA-30	30Φ	35Φ	BSS-10 / BES-10	10Φ	11Φ
BSA-32 / BEA-32	32Φ	38Φ	BSS-12 / BES-12	12Φ	13.2Φ
BSA-40 / BEA-40	40Φ	47Φ	BSS-16 / BES-16	16Φ	17Φ
BSA-50 / BEA-50	50Φ	58Φ	BSS-20 / BES-20	20Φ	21.5Φ
BSA-63 / BEA-63	63Φ	72Φ	BSS-25 / BES-25	25Φ	26.5Φ
BSA-80 / BEA-80	80Φ	89Φ	BSS-32 / BES-32	32Φ	33.5Φ
BSA-100 / BEA-100	100Φ	110Φ	BSS-40 / BES-40	40Φ	42Φ
			BSS-50 / BES-50	50Φ	52Φ
			BSS-63 / BES-63	63Φ	65Φ

2.0
1.0
9.0
M3x0.5
防滑橡膠墊片

PM (for FC-20)

型號	A	B	C
PM-6	19.1	31.3	7.3
PM-8	18.4	33.5	9.5
PM-10	16.7	35.7	11.2
PM-12	20.0	35.5	11.5
PM-14	24.0	38.0	13.5
PM-16	24.0	40.0	15.5

12.0
A
M3X0.5
12.5
C
2-M4X0.7

PH (for FC-20)

15.1
12.5
10.5
9.0

Model	dia. of cylinder
PH-63	6~63Φ
PH-125	6~125Φ

Magnet / 鐵 (MS-06)

M6X1.0
Ø9.6
11.4
8.0
19.4

Magnet / 鐵 (MS-59)

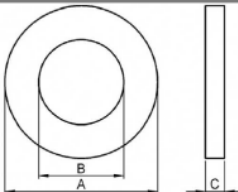
14.0
11.0
3.0
14.0
4.5
23.0
2-3.80X3.20

Magnet / 鐵 (MS-T12)

14.0
18.5
14.0
11.5

● Magnetic ring / 磁環

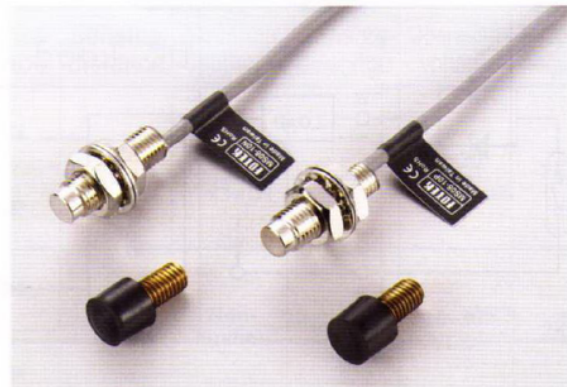
§ RME series Rubber anisotropic magnetic ring

		Model	Dimension (mm)			Model	Dimension (mm)		
			A±0.3	B±0.2	C±0.1		A±0.3	B±0.2	C±0.1
使用環境温度	-25°C ~ 80°C	RME-164	15.5	8.3	4.0	RME-165	15.5	8.3	5.0
磁通密度	2,500~2,600 GAUSS	RME-204	19.5	9.3	4.0	RME-205	19.5	9.3	5.0
保磁力 (IHC)	2,800~3,200 Oe	RME-254	24.5	13.3	4.0	RME-205L	19.5	12.3	5.0
保磁力 (bHC)	2,100~2,400 Oe	RME-254L	24.5	17.3	4.0	RME-255	24.5	13.3	5.0
最大磁積能	1.3 ~ 1.5 M Oe	RME-304	29.5	21.3	4.0	RME-305	29.5	21.3	5.0
磁阻力	20~50kgf/cm2	RME-324	31.5	21.3	4.0	RME-325	31.5	21.3	5.0
延展性	10~20%	RME-404	39.5	22.3	4.0	RME-405	39.5	22.3	5.0
硬度	30~50 HV	RME-504	49.5	32.3	4.0	RME-505	49.5	32.3	5.0
材料密度	1.2~1.8 g/cm3	RME-634	62.5	42.3	4.0	RME-635	62.5	42.3	5.0
		RME-804	79.5	58.3	4.0	RME-805	79.5	58.3	5.0
		RME-1004	99.5	78.3	4.0	RME-1005	99.5	78.3	5.0
		RME-1254S	124.5	79.3	4.0				
		RME-1254	124.5	108.3	4.0				
		RME-1504	149.5	125.3	4.0				
		RME-2004	195.5	176.3	4.0				

§ PME series Plastic anisotropic magnetic ring

		Model	Dimension (mm)			Model	Dimension (mm)		
			A±0.3	B±0.2	C±0.1		A±0.3	B±0.2	C±0.1
		PME-204	19.5	9.3	4.0	PME-125	11.5	6.3	5.0
		PME-254	24.5	13.3	4.0	PME-165	15.5	8.3	5.0
使用環境溫度	-40°C ~ 120°C	PME-304	29.5	21.3	4.0	PME-205	19.5	9.3	5.0
磁通密度	2,800~3,000 GAUSS	PME-324	31.5	21.3	4.0	PME-255	24.5	13.3	5.0
保磁力 (iHC)	3,000~3,600 Oe	PME-404	39.5	22.3	4.0	PME-305	29.5	21.3	5.0
保磁力 (bHC)	2,400~2,600 Oe	PME-504	49.5	32.3	4.0	PME-325	31.5	21.3	5.0
最大磁積能	1.8 ~ 2.0 M Oe	PME-634	62.5	42.3	4.0	PME-405	39.5	22.3	5.0
磁阻力	70~80kgf/cm2	PME-804	79.5	58.3	4.0	PME-505	49.5	32.3	5.0
延展性	5~7%	PME-1004	99.5	78.3	4.0	PME-635	62.5	42.3	5.0
硬度	110~120 HV					PME-805	79.5	59.3	5.0
材料密度	3.8~4.0 g/cm3					PME-1005	99.5	78.3	5.0

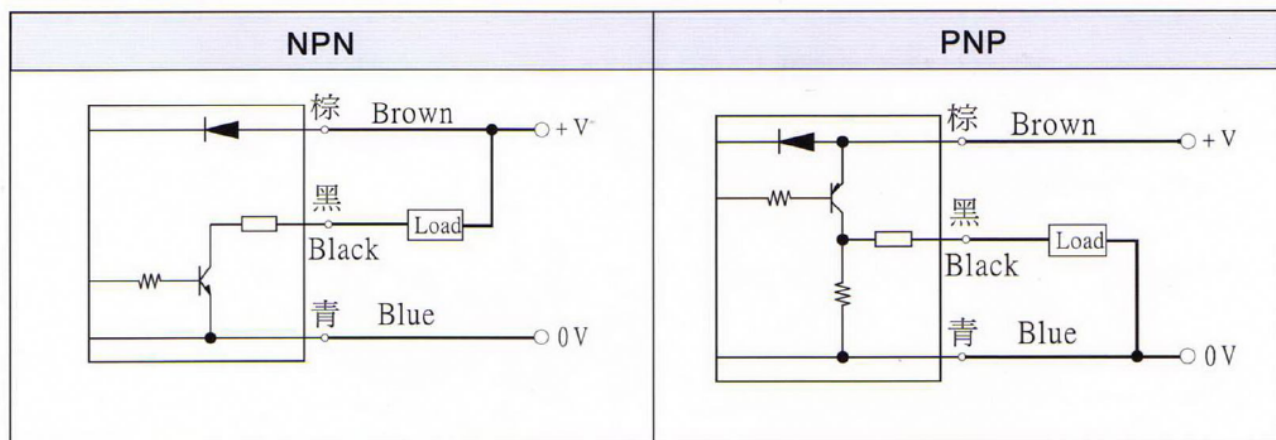
- ❖ High compact structure
堅固結構
- ❖ High reliability with protection circuit
高可靠度附保護回路
- ❖ Solid state output : 150 mA max.
無接點輸出 : 150 mA max.
- ❖ High response frequency : 1.2K Hz
高速響應頻率 : 1.2K Hz



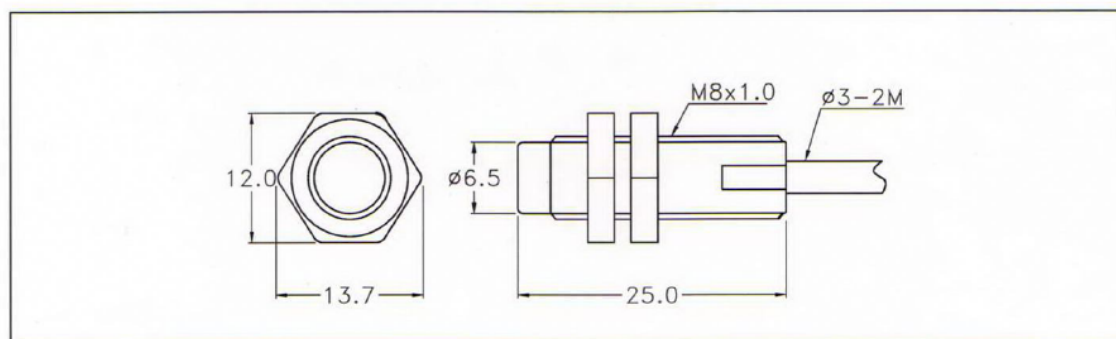
◆ Specification / 規格

Model		MS08-10N	MS08-10P
Output method		NPN	PNP
Sensing distance	感應距離	8 ~ 12 mm (with MS-M6)	
Response frequency	響應頻率	1.2 K Hz min.	
Operating voltage	工作電壓	10 ~ 30 VDC	
Power ripple	電源漣波	20% of Vp-p max.	
Output current	輸出電流	150mA max.	
Current consumption	消耗電流	10mA max.	
Residual voltage	殘留電壓	0.8V max.	
Leakage current	洩漏電流	0.1mA	
Hysteresis	應差	20% of sensing distance max.	
Thermal drift	溫度漂移	20 μ m / $^{\circ}$ C max.	
Voltage drift	電壓漂移	2.0 μ m / V max.	
Protection circuit	保護回路	Short-circuit & Polarity reversed protection	
Operating Temperature	工作溫度	- 25 $^{\circ}$ C ~ +80 $^{\circ}$ C	
Operating humidity	工作濕度	35% ~ 95% RH	
Protection class	保護等級	IP - 67	

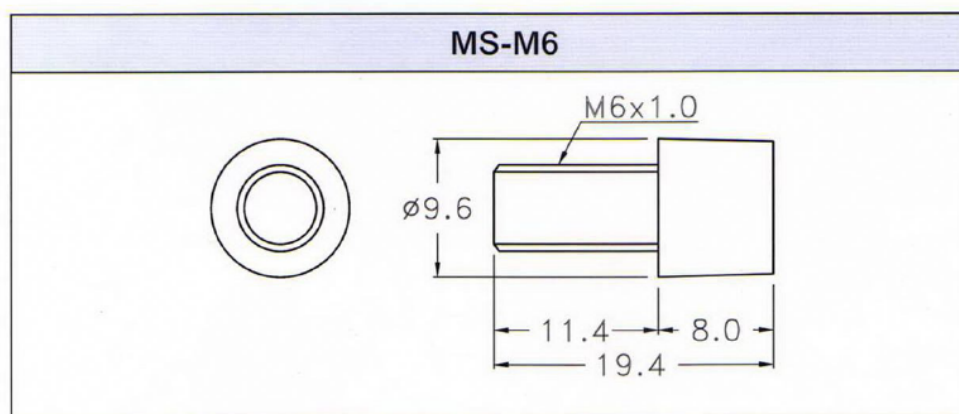
◆ Output circuit & connection diagram / 輸出回路及接線圖



◆ Outline dimension / 外形尺寸



◆ Magnet / 磁鐵



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