

- High compact
堅固耐用
- High reliability
高穩定性
- High Noise Resistance
高抗干擾力
- High protection class IP-67
高防水等級IP-67



Model guiding/型號索引

Ex. FC-20 R-H-2M 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)/ 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

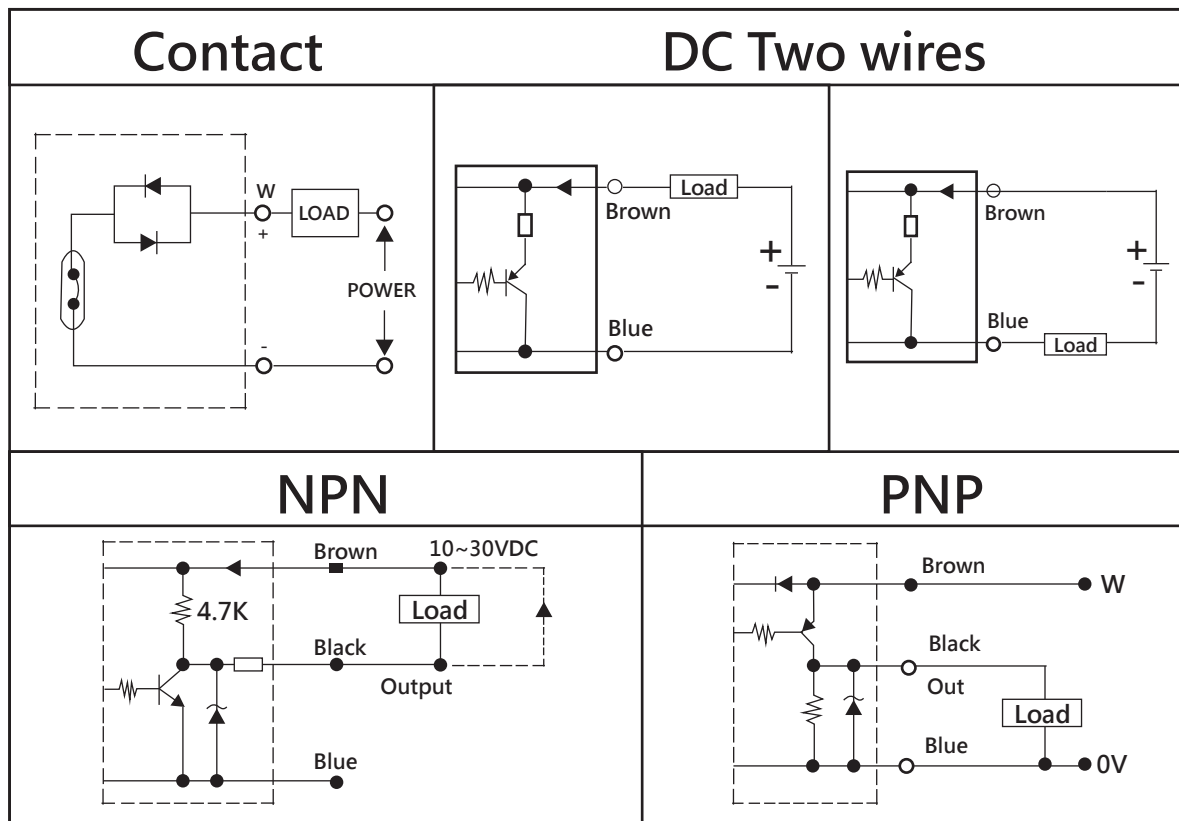
Notice for users/選型使用注意事項(*)

- 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.請配合汽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。(因沒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」及「FC-xxRE」 may turn on load but cannot turn on operating LED, other type don't word, 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
Protection class	保護等級	IP-67(IEC-60529)	
Vibration resistance	耐震動	300m/S ² / (55~2000Hz) (IEC-60068-2-6)	
Shock resistance	耐衝擊	300m/S ² with 11ms (IEC-60068-2-27)	
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	100MΩ/500vdc	
Operation circumstance	工作環境	-25°C~+85°C;100%RH max.(Condensation permitted)	

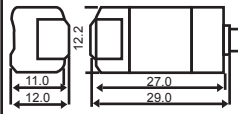
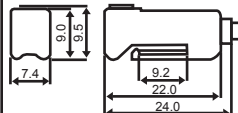
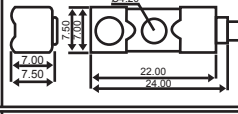
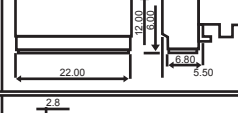
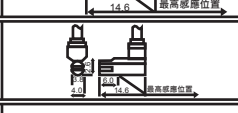
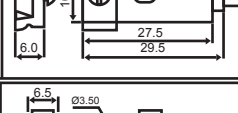
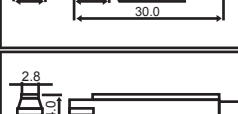
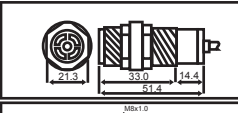
Connection diagram/接線圖



Fixed parts / 固定帶

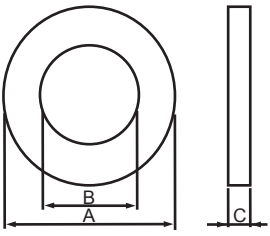
PNS/PNA (for FC-20)	BSS/BSA (for FC-48) / BES/BEA (for FC-04)	PH (for FC-20)																																																																																																																																																		
Rand PNS-16 Diameter of cylinder 16:Ø16.0 20:Ø20.0 150:Ø150.0 Material of cylinder S : Stainless steel A : Aluminum Alloy 15.5 15.0 9.0 96.0	<table><tr><th colspan="3">Alumina alloy cylinder</th><th colspan="3">Stainless steel cylinder</th></tr><tr><th>Model</th><th>Inner dia.</th><th>Outer dia.</th><th>Model</th><th>Inner dia.</th><th>Outer dia.</th></tr><tr><td>BSA-20/BEA-20</td><td>20Φ</td><td>25Φ</td><td>BSS-06/BES-06</td><td>6Φ</td><td>8.5Φ</td></tr><tr><td>BSA-25/BEA-25</td><td>25Φ</td><td>30Φ</td><td>BSS-08/BES-08</td><td>8Φ</td><td>10Φ</td></tr><tr><td>BSA-30/BEA-30</td><td>30Φ</td><td>35Φ</td><td>BSS-10/BES-10</td><td>10Φ</td><td>11Φ</td></tr><tr><td>BSA-32/BEA-32</td><td>32Φ</td><td>38Φ</td><td>BSS-12/BES-12</td><td>12Φ</td><td>13.2Φ</td></tr><tr><td>BSA-40/BEA-50</td><td>40Φ</td><td>45Φ</td><td>BSS-16/BES-16</td><td>16Φ</td><td>17Φ</td></tr><tr><td>BSA-50/BEA-50</td><td>50Φ</td><td>55Φ</td><td>BSS-20/BES-20</td><td>20Φ</td><td>21.5Φ</td></tr><tr><td>BSA-63/BEA-63</td><td>63Φ</td><td>70Φ</td><td>BSS-25/BES-25</td><td>25Φ</td><td>26.5Φ</td></tr><tr><td>BSA-80/BEA-80</td><td>80Φ</td><td>87.7Φ</td><td>BSS-32/BES-32</td><td>32Φ</td><td>33.5Φ</td></tr><tr><td></td><td></td><td></td><td>BSS-40/BES-40</td><td>40Φ</td><td>42Φ</td></tr></table> 2.0 9.0 M3x0.5	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-50	40Φ	45Φ	BSS-16/BES-16	16Φ	17Φ	BSA-50/BEA-50	50Φ	55Φ	BSS-20/BES-20	20Φ	21.5Φ	BSA-63/BEA-63	63Φ	70Φ	BSS-25/BES-25	25Φ	26.5Φ	BSA-80/BEA-80	80Φ	87.7Φ	BSS-32/BES-32	32Φ	33.5Φ				BSS-40/BES-40	40Φ	42Φ	15.1 12.5 10.5	BES/BEA (for FC-04)		<table><tr><th>Model</th><th>dia. of cylinder</th></tr><tr><td>PH-63</td><td>6~63Φ</td></tr><tr><td>PH-125</td><td>6~125Φ</td></tr></table>	Model	dia. of cylinder	PH-63	6~63Φ	PH-125	6~125Φ	1.0 9.0 M3x0.5	2.0 9.0 M3x0.5	<table><tr><th>Model</th><th>dia. of cylinder</th></tr><tr><td>PH-63</td><td>6~63Φ</td></tr><tr><td>PH-125</td><td>6~125Φ</td></tr></table>	Model	dia. of cylinder	PH-63	6~63Φ	PH-125	6~125Φ	PL (for FC-20)	PM (for FC-20)	磁鐵 [MS-06]	<table><tr><th>Model</th><th>A</th><th>Inner dia. of cylinder</th></tr><tr><td>PI-1</td><td>11.20</td><td>32~40Φ</td></tr><tr><td>PI-2</td><td>14.10</td><td>50~63Φ</td></tr><tr><td>PI-3</td><td>15.50</td><td>80Φ</td></tr><tr><td>PI-4</td><td>16.30</td><td>100Φ</td></tr><tr><td>PI-5</td><td>19.80</td><td>125Φ</td></tr><tr><td>PI-6</td><td>26.50</td><td>150Φ</td></tr></table>	Model	A	Inner dia. of cylinder	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	<table><tr><th>型號</th><th>尺寸</th><th>A</th><th>B</th><th>C</th></tr><tr><td>PM-3</td><td></td><td>19.1</td><td>31.3</td><td>7.3</td></tr><tr><td>PM-9</td><td></td><td>18.4</td><td>33.5</td><td>9.5</td></tr><tr><td>PM-10</td><td></td><td>16.7</td><td>35.7</td><td>11.2</td></tr><tr><td>PM-12</td><td></td><td>20.0</td><td>35.5</td><td>11.5</td></tr><tr><td>PM-14</td><td></td><td>24.0</td><td>38.0</td><td>13.5</td></tr><tr><td>PM-16</td><td></td><td>24.0</td><td>40.0</td><td>15.5</td></tr></table> 12.0 B 12.5 C M3X0.5 2-M4X0.7	型號	尺寸	A	B	C	PM-3		19.1	31.3	7.3	PM-9		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	9.6 M6x1.0 11.4 8.0 19.4
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Magnetic ring / 磁環

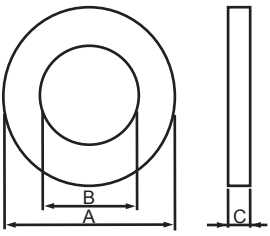
Series	Model	Wires	Operating voltage	Output method	Voltage drop	Leakage current	Output current	Sensitivity (Gauss)	Response frequency	Sensor	Housing material	Outline
FC-20	FC-20R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	Intensive Nylon	
	FC-20RE	2c/4Φ	5~60VDC	Contact	3.0V	non						
	FC-20RN	3c/4Φ	5~30VDC	NPN	3.0V	non	150mA					
	FC-20RP	3c/4Φ	5~30VDC	PNP	3.0V	non		<40	5K Hz	Hall sensor		
	FC-20D	2c/4Φ	10~30VDC	T	3.5V	0.5mA						
	FC-20N	3c/4Φ	5~30VDC	NPN	0.8V	0.1mA	150mA					
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	5K Hz	Hall sensor		
	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	5K Hz	Hall sensor		
	FC-05N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA						
	FC-05P	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	5K Hz	Hall sensor		
	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	5K Hz	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	5K Hz	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 Gauss	5K Hz	Hall sensor		
	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 Gauss	5K Hz	Hall sensor		
	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	5K Hz	Hall sensor		
	FC-50N	3c/3Φ	5~30VDC	NPN	0.8V	0.1mA						
	FC-50P	3c/3Φ	5~30VDC	PNP	0.8V	0.1mA						
FC-06	FC-06R	2c/2.5Φ	5~240VDC/AC	Contact	3.0V	non	500mA	H<40 N<80 L<120	200Hz	Reed sensor	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 Gauss	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 sensor	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						
FC-08	FC-08R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed sensor	Cu	
FC-12	FC-12R	2c/4Φ	5~240VDC/AC	Contact	3.0V	non	500mA	<40	200Hz	Reed sensor	Cu	
FC-18	FC-18RE	2c/4Φ	5~60VDC	Contact	3.0V	non	150mA	<40	200Hz	Reed	PP	
	FC-18N	3c/4Φ	5~30VDC	NPN	0.8V	0.01mA	150mA	<40	5K Hz	Hall		
MS-08	MS08-10N	3c/4Φ	5~30VDC	NPN	0.8V	0.01mA	150mA	<40	5K Hz	Hall sensor	Cu	
	MS08-10P	3c/4Φ	5~30VDC	PNP	0.8V	0.01mA	150mA	<40				

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
使用環境溫度	-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	1.3~1.5M Oe	RME-304	29.5	21.3	4.0	RME-305	29.5	21.3	5.0
磁阻力	20~50kgf/cm ²	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	30~50HV	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/cm ³	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
使用環境溫度	-40°C~120°C	PME-204	19.5	9.3	4.0	PME-125	11.5	6.3	5.0
磁通密度	2,800~3,000 GAUSS	PME-254	24.5	13.3	4.0	PME-165	15.5	8.3	5.0
保磁力(iHC)	3,000~3,600 Oe	PME-304	29.5	21.3	4.0	PME-205	19.5	9.3	5.0
保磁力(bHC)	2,400~2,600 Oe	PME-324	31.5	21.3	4.0	PME-255	24.5	13.3	5.0
最大磁積能	1.8~2.0M Oe	PME-404	39.5	22.3	4.0	PME-305	29.5	21.3	5.0
磁阻力	70~80kgf/cm ²	PME-504	49.5	32.3	4.0	PME-325	31.5	21.3	5.0
延展性	5~7%	PME-634	62.5	42.3	4.0	PME-405	39.5	22.3	5.0
硬度	110~120HV	PME-804	79.5	58.3	4.0	PME-505	49.5	32.3	5.0
材料密度	3.8~4.0 g/cm ³	PME-1004	99.5	78.3	4.0	PME-635	62.5	42.3	5.0
						PME-805	79.5	59.3	5.0
						PME-1005	99.5	78.3	5.0