

IEC inlet filters FN 9260

General purpose power entry module with fuses

SCHAFNER
safety for electronic systems



- Rated currents up to 10A
- For one or two fuses
- Optional medical versions (B type)
- Snap-in versions (S type)

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
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Approvals



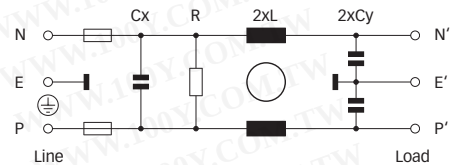
RoHS
2002/95/EC

Technical specifications

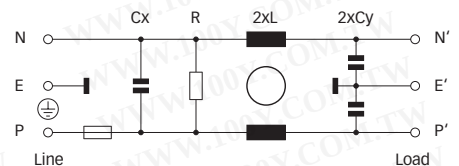
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 40°C max.
High potential test voltage:	P → E 2000VAC for 2 sec (standard types) P → E 2500VAC for 2 sec (B types) P → N 760VAC for 2 sec (standard types) P → N 1700VDC for 2 sec (B types)
Air clearance:	>3mm according to EN 60601-1
Creepage distance:	>4mm according to EN 60601-1
Protection category:	IP40 according to IEC 60529
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, EN 60939
Flammability corresponding to:	UL 94V-2 or better
MTBF @ 40°C/230V (Mil-HB-217F):	2,200,000 hours
Fuse holder:	1 or 2 fuses (Ø5 x 20mm)

Typical electrical schematic

FN 9260 (B types without Y-capacitors)



FN 261



Features and benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- All versions are available with low leakage currents for medical applications. Air and creepage distance > 4mm fulfills EN 60601-1 requirements for patienten coupled devices.
- Versions up to 10A are available with fuse holder for one or two fuses.
- Custom-specific versions are available on request.

Typical applications

- Portable electrical and electronical equipment
- Medical equipment
- Small to medium sized machines and household equipment
- Single-phase power supplies, switch mode power supplies
- Test and measurement equipment

The FN 9260 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and fuses in a small form factor. Choosing FN 9260 product line brings you rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings, output connections, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

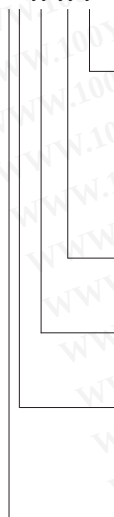
Filter selection table

Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance L	Capacitance		Resistance R	Input/Output connections	Fuses	Weight
	[A]	[μA]	[mH]	Cx [μF]	Cy [nF]	[kΩ]		[Qty]	[g]
FN 9260x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	2	55
FN 9260x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	2	55
FN 9260x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	2	55
FN 9260x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	2	55
FN 9260x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	2	55
FN 9260xB-1-06-y	1 (1.2)	2	5.3	0.1		1000	-06	2	55
FN 9260xB-2-06-y	2 (2.3)	2	2.7	0.1		1000	-06	2	55
FN 9260xB-4-06-y	4 (4.6)	2	1.0	0.1		1000	-06	2	55
FN 9260xB-6-06-y	6 (6.9)	2	0.3	0.1		1000	-06	2	55
FN 9260xB-10-06-y	10 (11.5)	2	0.2	0.1		1000	-06	2	55
FN 261x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	1	55
FN 261x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	1	55
FN 261x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	1	55
FN 261x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	1	55
FN 261x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	1	55

* Max. leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

Product selector

FN 9260xx-yy-yy-y



Snap-in range for S version only

10: Snap-in range 0.6 to 1.5mm

20: Snap-in range 1.6 to 2.5mm

30: Snap-in range 2.6 to 3.5mm

06: Faston 6.3 x 0.8mm (spade/soldering)

1 to 10: Rated current

Blank: Standard version

B: Medical version (without Y-capacitor)

Blank: Standard housing with mounting flanges

S: Snap-in version, snapper on vertical side

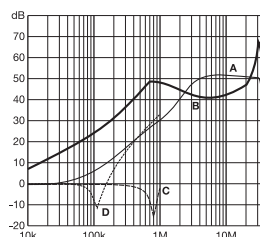
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For example: FN 9260-1-06-10, FN 9260SB-10-06-20, FN 261S-6-06-30

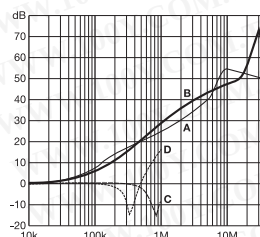
Typical filter attenuation

Per CISPR 17; A = 50Ω/50Ω sym, B = 50Ω/50Ω asym, C = 0.1Ω/100Ω sym, D = 100Ω/0.1Ω sym

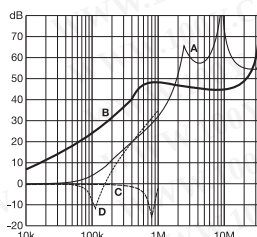
FN 9260: 1 to 4A types



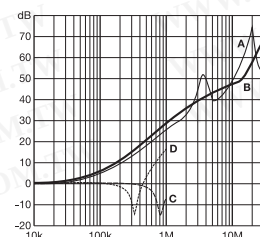
FN 9260: 6 and 10A types



FN 261: 1 to 4A types

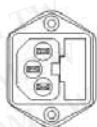
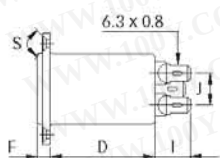
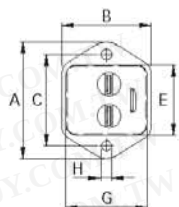


FN 261: 6 and 10A types

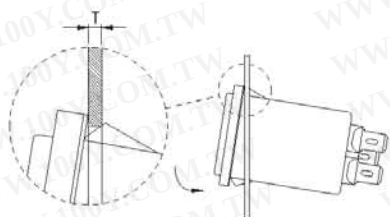


Mechanical data

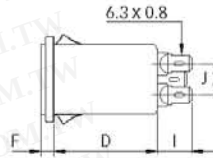
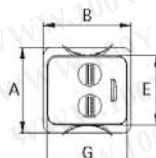
FN 9260 / FN 261



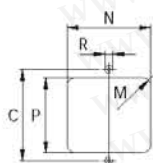
Installation



FN 9260S / FN 261S



Panel cut out



Dimensions

	FN 9260 FN 261	FN 9260S FN 261S	Tolerances
A	46	34	±0.3
B	35	35	±0.3
C	36		±0.3
D	41	41	±0.3
E	27.8	27.8	+0.3/-0
F	5.5	5.5	±0.3
G	32	32	+0.3/-0
H	3.2		±0.1
I	13.8	13.8	
J	12.5	12.5	±0.3
M	R ≤ 3.5	R ≤ 3.5	
N	33	33	+0.3/-0
P	29	29.5	±0.3
R	M3		
S	90°		
T*		0.6 - 1.5	
T*		1.6 - 2.5	
T*		2.6 - 3.5	

All dimensions in mm; 1 inch = 25.4mm

* For selecting the panel thickness, please refer to the filter selector table.

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IEC插座型滤波器 FN 9260

带保险丝的通用电源接入模块



- 电流额定值高达10A
- IEC 950兼容
- 配备1根或2根保险丝
- 可选医用型号 (B型)

技术规格

最大连续工作电压: 250VAC, 50/60Hz
工作频率: DC - 400Hz
额定电流: 1 - 10A (最高40°C时)
P → E 2000VAC, 持续2秒 (标准型)
P → E 2500VAC, 持续2秒 (医用型)
P → N 760VAC, 持续2秒 (标准型)
P → N 1700VDC, 持续2秒 (医用型)
高压测试电压:
气隙: > 3mm, 根据EN60601-1
爬电距离: > 4mm, 根据EN60601-1
防护等级: IP40, 根据IEC60529
温度范围 (操作和存储): -25°C - +85°C (25/85/21)
设计标准: UL1283, CSA22.2, No.8 1986, EN 133'200, IEC60939
可燃性标准: UL94V-2或更高
40°C/230V时的MTBF (Mil-HB-217F): 2,200,000小时 (1至10A型)
保险丝盒: 1或2根保险丝 (Φ5×20mm)

功能和益处

FN 9260电源接入模块将具有良好滤波衰减性能的IEC入口电源滤波器和保险丝合成在一起, 具有较小的波形因数。选择FN 9260产品系列意味着迅速获得符合安全规定的标准滤波器。标准IEC连接滤波器是一种非常实用的解决方案, 帮助您在短期内通过EMI体系许可。提供多种电流额定值、输出连接、安装方式和医用滤波器选择, 必有满足您需要的解决方案。

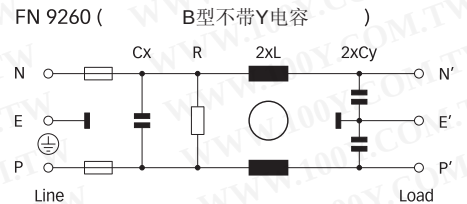
- 卓越的传导衰减性能, 来自拥有大饱和电阻和卓越热行为的扼流圈。
- 所有类型均提供医用小漏电流规格。气隙和爬电距离 > 4mm符合EN60601-1关于病人关联设备的要求。
- 10A以下的产品配备保险丝盒, 内装1根或2根保险丝。
- 如有要求, 可以定制特殊型号

许可

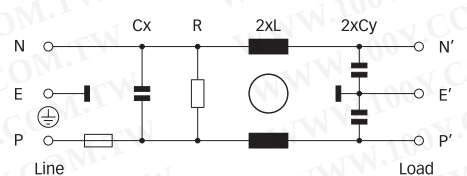


RoHS
2002/95/EC

典型电路图



FN 261



典型应用

- 便携式电气电子设备
- 医疗器械
- 中小型机械和设备
- 单相电源和开关电源
- 测试和测量设备

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滤波器选择表格

滤波器	额定电流 @40°C (25°C) [A]	漏电流** @230VAC/50Hz [μA]	电感 L [mH]	Cx [μF]	电容 Cy [nF]	电阻 R [kΩ]	输入/输出连接	外壳(x) 开天窗	S	保险丝 [Qty]	重量 [g]
FN 9260x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	•	•	2	55
FN 9260x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	•	•	2	55
FN 9260x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	•	•	2	55
FN 9260x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	•	•	2	55
FN 9260x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	•	•	2	55
FN 9260xB-1-06-y	1 (1.2)	2	5.3	0.1		1000	-06	•	•	2	55
FN 9260xB-2-06-y	2 (2.3)	2	2.7	0.1		1000	-06	•	•	2	55
FN 9260xB-4-06-y	4 (4.6)	2	1.0	0.1		1000	-06	•	•	2	55
FN 9260xB-6-06-y	6 (6.9)	2	0.3	0.1		1000	-06	•	•	2	55
FN 9260xB-10-06-y	10 (11.5)	2	0.2	0.1		1000	-06	•	•	2	55
FN 261x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	•	•	1	55
FN 261x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	•	•	1	55
FN 261x-4-06-y	4 (4.6)	373	1.0	0.1	2.2	1000	-06	•	•	1	55
FN 261x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	•	•	1	55
FN 261x-10-06-y	10 (11.5)	373	0.2	0.1	2.2	1000	-06	•	•	1	55

* 要获得完整的零件编号，用选定的外壳类型替换"x"，对于卡入式版本，用要求的的面板厚度替换"y"（例如FN 9260SB-6-06-10，FN 9260S-4-06-20）。

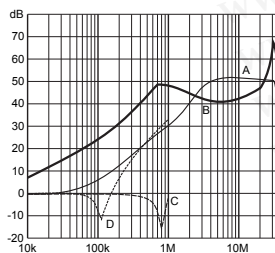
** 在正常情况下的最大漏电流。备注：如果中性线断开，最坏情况下的漏电流可能会达到此水平的2倍。

卡入式系列（y）：开天窗 = 0.6 – 1.5mm
-20 = 1.6 – 2.5mm
-30 = 2.6 – 3.5mm

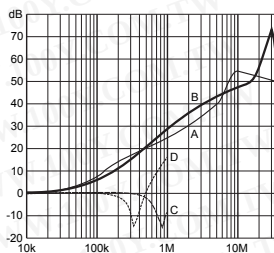
典型滤波器衰减

根据CISPR 17：A = 50Ω/50Ω对称；B = 50Ω/50Ω非对称；C = 0.1Ω/100Ω对称；D = 100Ω/0.1Ω对称

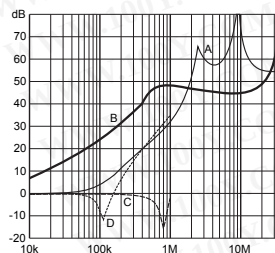
FN 9260: 1 to 4A 型



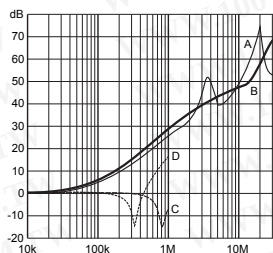
FN 9260: 6 and 10A 型



FN 261: 1 to 4A 型



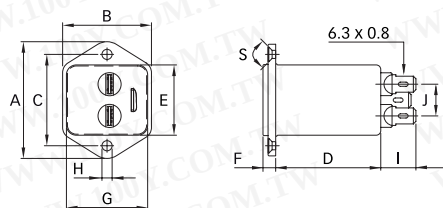
FN 261: 6 and 10A 型



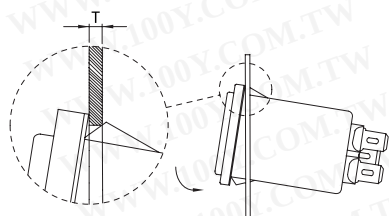
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机械数据

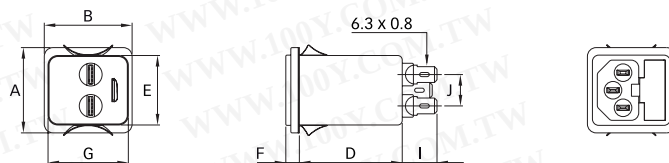
FN 9260 / FN 261



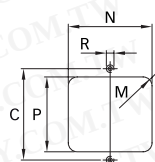
安装



FN 9260S / FN 261S



取下面板



尺寸

	FN 9260 FN 261	FN 9260S FN 261S	T
A	46	34	±0.3
B	35	35	±0.3
C	36		±0.3
D	41	41	±0.3
E	27.8	27.8	+0.3/-0
F	5.5	5.5	±0.3
G	32	32	+0.3/-0
H	3.2		±0.1
I	13.8	13.8	
J	12.5	12.5	±0.3
M	R ≤ 3.5	R ≤ 3.5	
N	33	33	+0.3/-0
P	29	29.5	±0.3
R	M3		
S	90°		
T*		0.6 - 1.5	
T*		1.6 - 2.5	
T*		2.6 - 3.5	

所有尺寸的单位均为毫米；1英寸=25.4毫米
* 选择面板厚度时，参考滤波器选择表格。

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