

# General Purpose Power Entry Module with Fuses



- Rated currents up to 10 A
- Integrated single/dual fuse holder
- Optional reduced leakage current versions (A/B
- Complies with IEC/EN 60601-1
- Snap-in versions (S type)

Performance indicators

Good attenuation performance



# Attenuation performance very high

Rated	d current [	A]			
0	4	8	12	16	20
1			10		

## **Technical specifications**

Maximum continuous operating voltage

**Operating frequency** 

**Rated currents** 

High potential test voltage

**Protection category** 

Temperature range (operation and storage)

Design corresponding to

Flammability corresponding to

MTBF @ 40°C/230 V (Mil-HB-217F)

**Fuse holder** 

**Operating voltage** 

250 VAC, 50/60 Hz

DC to 400 Hz

1 to 10 A @ 40°C max.

P -> PE 2000 VAC for 2 sec (standard types)

P -> PE 2500 VAC for 2 sec (B types)

P -> N 760 VAC for 2 sec

IP 40 according to IEC 60529

-25°C to +85°C (25/85/21)

UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/ T15287, GB/T15288

Inlet plastic: UL 94 V-0 Fuseholder plastic: UL 94 V-0

2,200,000 hours

1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6) 250 VAC, 50/60 Hz

## Approvals & Compliances













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.

## **Features and Benefits**

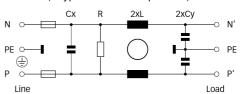
- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- I FN 9260 B versions comply with the requirements of 1MOP acc. to IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testina
- Versions up to 10 A are available with fuse holder for one or two fuses
- Custom-specific versions are available on request

## **Typical applications**

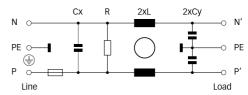
- I Portable electrical and electronic equipment
- Medical equipment
- I Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

### Typical electrical schematic

FN 9260 (B types without Y-capacitors)



### FN 261

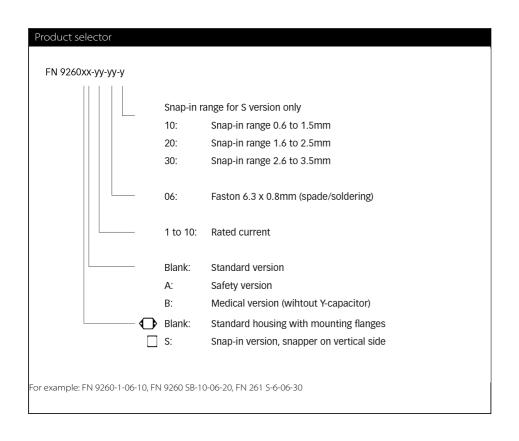


## Filter selection table

Filter	Buy	Rated current	Leakage current*	Inductance**	Capac	itance**	Resistance**	Input/Output	Fuses***	Weight
		@ 40°C (25°C)	@ 250 VAC/50 Hz	L	Сx	Су	R	connections		
			(@ 120 VAC/60 Hz)							
		[A]	[mA]	[mH]	[μF]	[nF]	[kΩ]		[Qty]	[g]
FN9260x-1-06-y	\₩	1 (1.2)	0.31 (0.18)	5.3	0.1	2.2	1000	-06	2	55
FN9260x-2-06-y	\#	2 (2.3)	0.31 (0.18)	2.7	0.1	2.2	1000	-06	2	55
FN9260x-4-06-y	\₩	4 (4.6)	0.31 (0.18)	1.0	0.1	2.2	1000	-06	2	55
FN9260x-6-06-y	₩	6 (6.9)	0.31 (0.18)	0.3	0.1	2.2	1000	-06	2	55
FN9260x-10-06-y	\₩	10 (11.5)	0.31 (0.18)	0.2	0.1	2.2	1000	-06	2	55
FN9260xA1-1-06-y	₩	1 (1.2)	0.03 (0.02)	5.3	0.1	0.22	1000	-06	2	55
FN9260xA-2-06-y	\₩	2 (2.3)	0.07 (0.04)	2.7	0.1	0.47	1000	-06	2	55
FN9260xA-4-06-y	₩	4 (4.6)	0.07 (0.04)	1.0	0.1	0.47	1000	-06	2	55
FN9260xA-6-06-y	\₩_	6 (6.9)	0.07 (0.04)	0.3	0.1	0.47	1000	-06	2	55
FN9260xA-10-06-y	\₩	10 (11.5)	0.07 (0.04)	0.2	0.1	0.47	1000	-06	2	55
FN9260xB-1-06-y	\₩	1 (1.2)	0.00	5.3	0.1		1000	-06	2	55
FN9260xB-2-06-y	\₩	2 (2.3)	0.00	2.7	0.1		1000	-06	2	55
FN9260xB-4-06-y	\₩	4 (4.6)	0.00	1.0	0.1		1000	-06	2	55
FN9260xB-6-06-y	\#_	6 (6.9)	0.00	0.3	0.1		1000	-06	2	55
FN9260 xB-10-06-y	\₩	10 (11.5)	0.00	0.2	0.1		1000	-06	2	55
FN261x-1-06-y	₩	1 (1.2)	0.31 (0.18)	5.3	0.1	2.2	1000	-06	1	55
FN261x-2-06-y	\ <b>₽</b>	2 (2.3)	0.31 (0.18)	2.7	0.1	2.2	1000	-06	1	55
FN261x-4-06-y	₩.	4 (4.6)	0.31 (0.18)	1.0	0.1	2.2	1000	-06	1	55
FN261x-6-06-y	\ <b>₽</b>	6 (6.9)	0.31 (0.18)	0.3	0.1	2.2	1000	-06	1	55
FN261x-10-06-y	₩.	10 (11.5)	0.31 (0.18)	0.2	0.1	2.2	1000	-06	1	55

<sup>\*</sup> Leakage current under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

<sup>\*\*\*</sup> Fuses are not included in the filter and need to be selected according to application

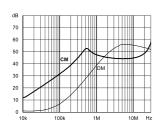


<sup>\*\*</sup> Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%

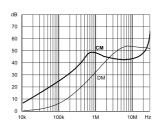
## **Typical filter attenuation**

Per CISPR 17; A=50  $\Omega$ /50  $\Omega$  sym; B=50  $\Omega$ /50  $\Omega$  asym; C=0.1  $\Omega$ /100  $\Omega$  sym; D=100  $\Omega$ /0.1  $\Omega$  sym

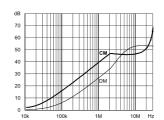
FN 261/ FN 9260: 1 A type



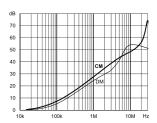
FN 261/ FN 9260: 2 A type



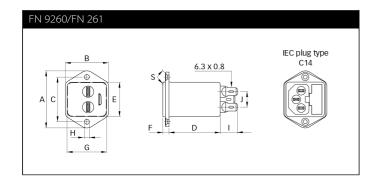
FN 261/ FN 9260: 4 A type

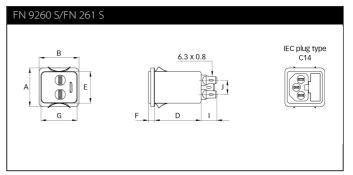


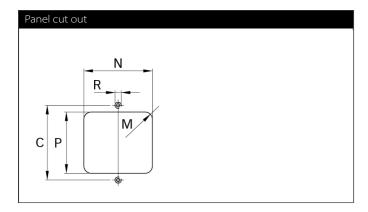
FN 261/ FN 9260: 6 and 10 A types

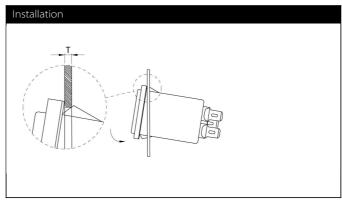


## **Mechanical data**









## **Dimensions**

	FN 261	FN 261 S	
	FN 9260	FN 9260 S	Tolerances
Α	46	34	±0.3
В	35	35	±0.3
С	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
Н	Ø3.2		±0.1
1	14	14	±0.5
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*	МЗ		
S	90°		
T**		0.6-1.5	
T**		1.6-2.5	
T**		2.6-3.5	

 $<sup>^{\</sup>ast}$  Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

All dimensions in mm; 1 inch = 25.4 mm Tolerances according: ISO 2768-m/EN 22768-m

Please visit  $\underline{www.schaffner.com}$  to find more details on filter connections.

<sup>\*\*</sup> For selecting the panel thickness, please refer to the filter selector table.

5 EMC/EMI Products Schaffner Group Datasheets | 30 Oct 2020

## **Appropriated products**

## **Accessories for IEC Inlet Filters and Power Entry Modules**

The accessories displayed are a selection of available accessories for IEC Inlet filters and IEC Power entry modules. As they are displayed in a general way there might be variants of the filters where the accessories are not available.

For further information please ask your local Schaffner Sales Partner and visit our homepage https://www.schaffner.com/.

## Power Cord with Locking System for Inlet Filters IL 13, IL 13 P, IL 19



Link to Datasheet: <u>Datasheet IEC C13/</u> <u>C19 locking cable</u>

The locking system has a tensile force of typical 200N.

It is recommended to use it with flange mount filters.

Lock Power Cords with IEC Inlets and Filters"

Schaffner power cords with IEC lock guard against

guard against
accidental disconnection of all
electrical appliances

with an IEC inlet. No exchange or modification of the

IEC inlet or IEC inlet filter system is needed. Easy

retrofit for all electronic equipments and devices.

## IEC C13 Rewireable Connector for individual Power Cord with Locking System



Link to Datasheet: <u>Datasheet IEC C13</u> rewireable

The locking system has a tensile force of typical 300N. It is recommended to use it with flange mount filters. For details refer to our Application Note "Using IEC Lock Power Cords with IEC Inlets and Filters" Schaffner power connector with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit for all electronic equipments and devices.

## IB - Insulating Boots



There is a full range of insulating boots available from Schaffner that provide a physical cover for the exposed terminals on the back of IEC Inlet Filters

These boots fit the simplest non-fused and unswitched style up to the fully fused and switched IEC filtered inlet. The boots are made from a durable black PVC material that conforms to UL94-V0 flammability requirements. The boots slip easily over the back of the filter and reduce the risk of electrical shock to maintenance personnel whilst protecting the filter from environmental hazard such as the ingress of dust and moisture.



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