

# 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 type)
- Complies with IEC/EN 60601-1
- Snap-in versions (S type)
- Good attenuation performance



### Performance indicators

Attenuation performance



### 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
- 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 testing
- Versions up to 10 A are available with fuse holder for one or two fuses
- Custom-specific versions are available on request

### Technical specifications

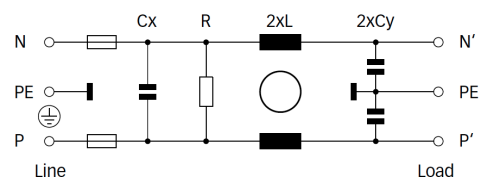
<b>Maximum continuous operating voltage</b>	250 VAC, 50/60 Hz
<b>Operating frequency</b>	DC to 400 Hz
<b>Rated currents</b>	1 to 10 A @ 40°C max.
<b>High potential test voltage</b>	P → PE 2000 VAC for 2 sec (standard types) P → PE 2500 VAC for 2 sec (B types) P → N 760 VAC for 2 sec (standard types) P → N 1700 VDC for 2 sec (B types)
<b>Protection category</b>	IP 40 according to IEC 60529
<b>Temperature range (operation and storage)</b>	-25°C to +85°C (25/85/21)
<b>Design corresponding to</b>	UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T15288
<b>Flammability corresponding to</b>	Inlet plastic: UL 94 V-0 Fuseholder plastic: UL 94 V-0
<b>MTBF @ 40°C/230 V (Mil-HB-217F)</b>	2,200,000 hours
<b>Fuse holder</b>	1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6)
<b>Operating voltage</b>	250 VAC, 50/60 Hz

### Typical applications

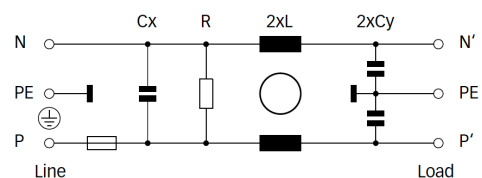
- Portable electrical and electronic equipment
- Medical equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment

### Typical electrical schematic

















FN 9260 (B types without Y-capacitors)



FN 261



## Filter selection table

Filter	Buy	Rated current @ 40°C (25°C)	Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)	Inductance** L	Capacitance**		Resistance** R	Input/Output connections	Fuses*** [Qty]	Weight [g]
					Cx	Cy				
		[A]	[mA]	[mH]	[μF]	[nF]	[kΩ]			
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
FN9260xB-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		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		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

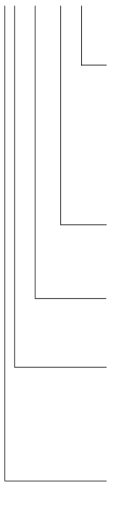
\* Leakage current under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.



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

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

**Product selector**

FN 9260xx-yy-yy-y



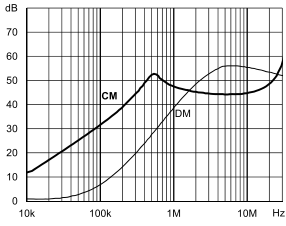
- Snap-in range for S version only
  - 10: Snap-in range 0.6 to 1.5mm
  - 20: Snap-in range 1.6 to 2.5mm
  - 30: Snap-in range 2.6 to 3.5mm
- 06: Faston 6.3 x 0.8mm (spade/soldering)
- 1 to 10: Rated current
- Blank: Standard version
- A: Safety version
- B: Medical version (without Y-capacitor)
-  Blank: Standard housing with mounting flanges
-  S: Snap-in version, snapper on vertical side

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

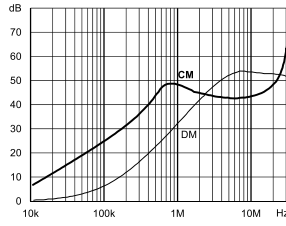
### Typical filter attenuation

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

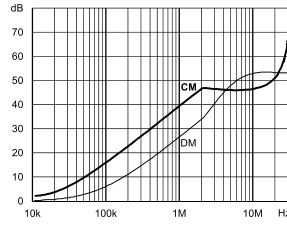
FN 261/ FN 9260: 1 A type



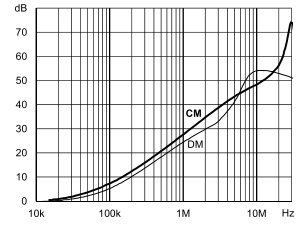
FN 261/ FN 9260: 2 A type



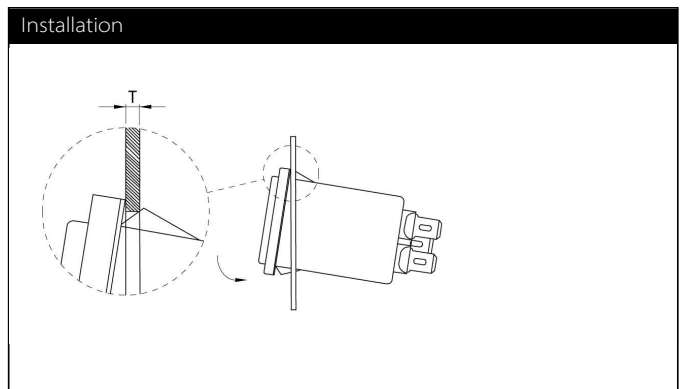
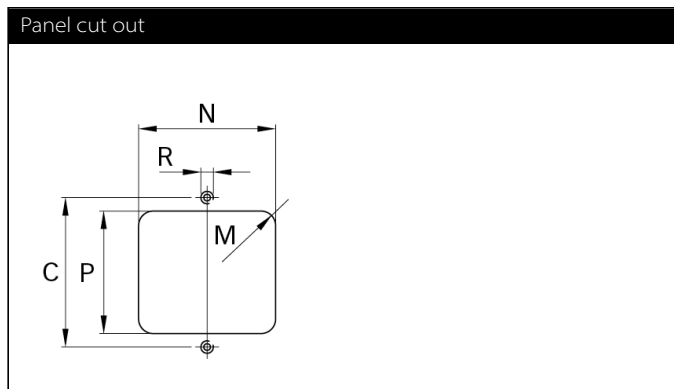
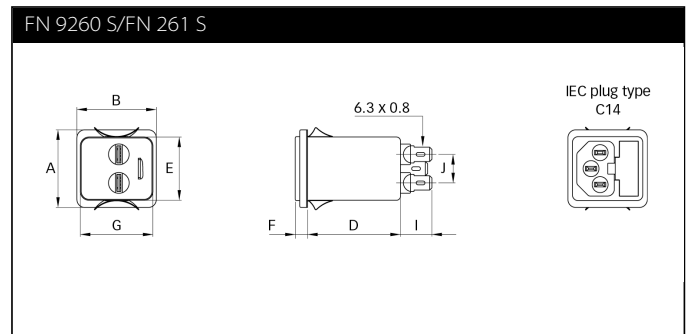
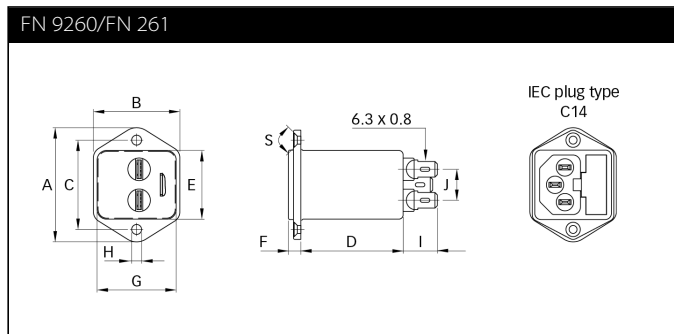
FN 261/ FN 9260: 4 A type



FN 261/ FN 9260: 6 and 10 A types



### Mechanical data



## Dimensions

	<b>FN 261</b> <b>FN 9260</b>	<b>FN 261 S</b> <b>FN 9260 S</b>	<b>Tolerances</b>
<b>A</b>	46	34	±0.3
<b>B</b>	35	35	±0.3
<b>C</b>	36		±0.3
<b>D</b>	41	41	±0.3
<b>E</b>	27.8	27.8	+0.3/-0
<b>F</b>	5.5	5.5	±0.3
<b>G</b>	32	32	+0.3/-0
<b>H</b>	∅3.2		±0.1
<b>I</b>	14	14	±0.5
<b>J</b>	12.5	12.5	±0.3
<b>M</b>	R ≤3.5	R ≤3.5	
<b>N</b>	33	33	+0.3/-0
<b>P</b>	29	29.5	±0.3
<b>R*</b>	M3		
<b>S</b>	90°		
<b>T**</b>		0.6-1.5	
<b>T**</b>		1.6-2.5	
<b>T**</b>		2.6-3.5	

\* Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

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

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

Please visit [www.schaffner.com](http://www.schaffner.com) to find more details on filter connections.

## 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: [Datasheet IEC C13/C19 locking cable](#)

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

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: [Datasheet IEC C13 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

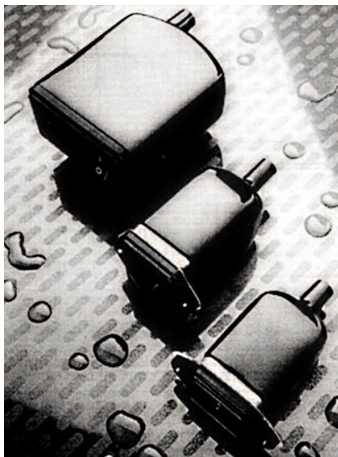
connector with IEC lock guard against accidental disconnection of all

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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