

IEC Appliance Inlet C14 Modular Assembling Options

Standard- or Medical-Filter



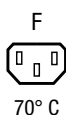
Snap-In Version



5411.XX5X.XXX
Appliance inlet
Fuseholder
Line filter



5431.X05X.XXX
Appliance inlet
Appliance outlet
Switch
Line filter



Description

- Panel Mount:
Snap-in version from front side
- 2 - 5 Functions:
Appliance Inlet Protection class I, Connector, Line Switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole, Line filter in standard and medical version
- Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE Certificate Number: 101307
- UL File Number: E72928

Characteristics

- Modular component selection
- Individual components soldered on a printed circuit board
- Plug removal necessary for fuse-link replacement
- Technical data of filter-components see blockfilter type 5500
- Fully insulated from the rear
- Suitable for use in equipment according to IEC/UL 60950
Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Line switch with other rocker marking

References

Alternative: version without line filter [Felcom 64](#)
Alternative: Standard version

Weblinks

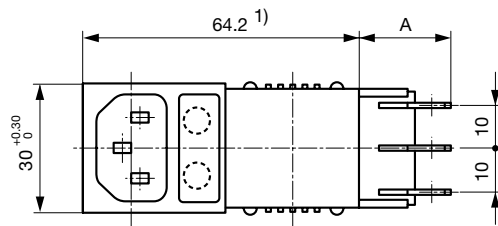
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Detailed request for product](#)

Technical Data

Ratings IEC	1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 10A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Snap-in: 1/1.2/1.5/2/2.5/3 mm 1/1.2/1.5/2/2.5/3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC 60320, F acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details
Line Filter	Standard Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 1'400'000 h acc. to MIL-HB-217 F

Dimension

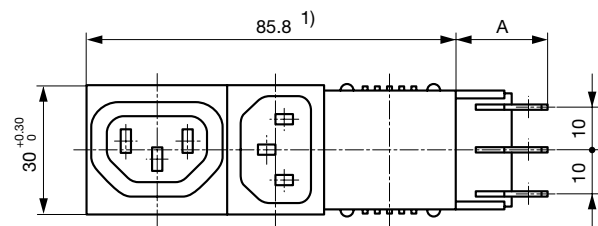


Variants 5411.XX5X.XXX

Mounting hole: $63^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

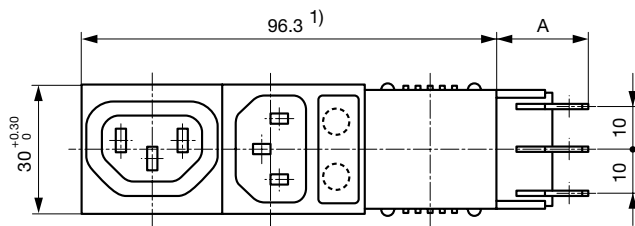


Variants 5421.X05X.XXX

Mounting hole: $85.9^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

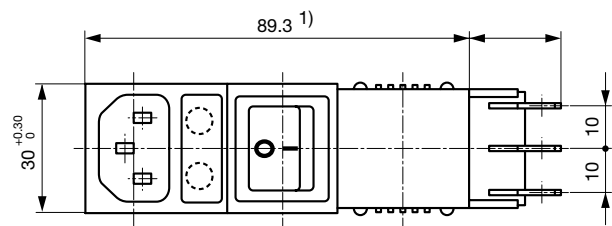


Variants 5423.XX5X.XXX

Mounting hole: $96.4^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

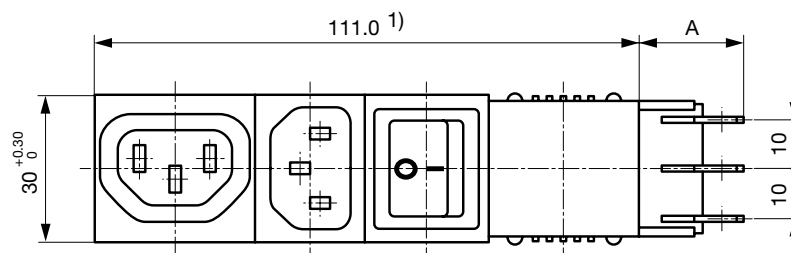


Variants 5424.XX5X.XXX

Mounting hole: $87.9^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm



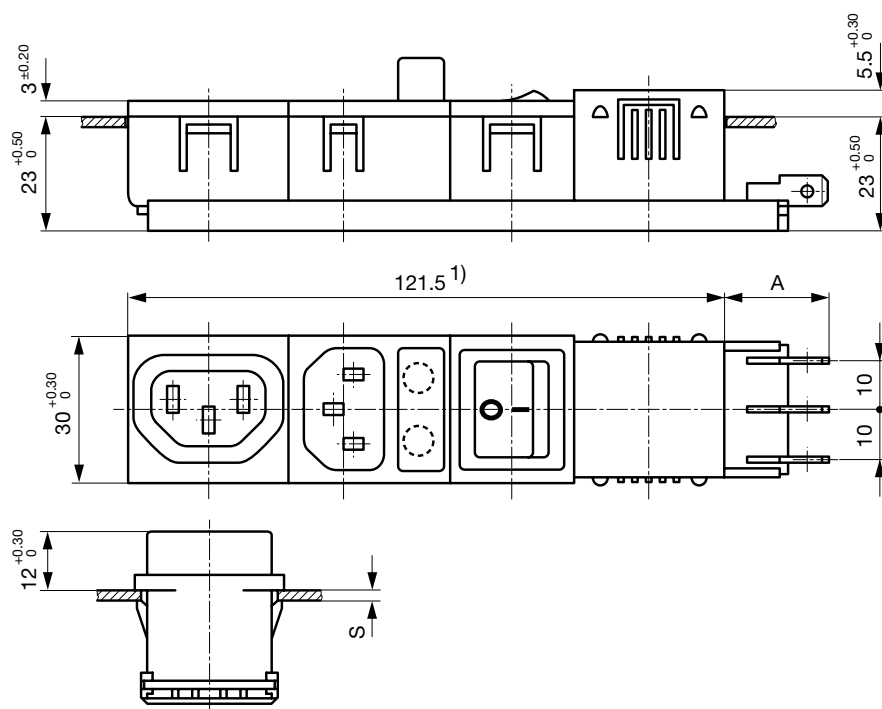
Variants 5431.X05X.XXX

Mounting hole: $111.1^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

1) In an uninstalled state the total length of the combinations may be slightly bigger than the nominal dimension. However, they can always be installed in the specified mounting cutouts.



Variants 5432.XX5X.XXX

Mounting hole: $121.6^{+0.2} \times 27.6^{+0.2}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

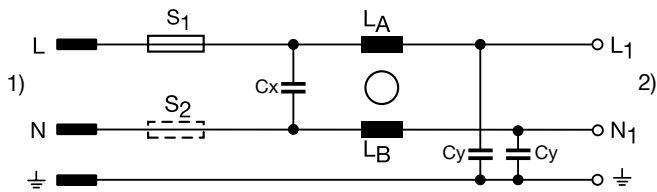
1) In an uninstalled state the total length of the combinations may be slightly bigger than the nominal dimension. However, they can always be installed in the specified mounting cutouts.

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 11	47	2.2	-
2	Standard Version	2 x 4	47	2.2	-
4	Standard Version	2 x 1.6	47	2.2	-
6	Standard Version	2 x 0.7	47	2.2	-
8	Standard Version	2 x 0.6	47	2.2	-
10	Standard Version	2 x 0.4	47	2.2	-
1	Medical Version (M5)	2 x 11	47	-	1
2	Medical Version (M5)	2 x 4	47	-	1
4	Medical Version (M5)	2 x 1.6	47	-	1
6	Medical Version (M5)	2 x 0.7	47	-	1
8	Medical Version (M5)	2 x 0.6	47	-	1
10	Medical Version (M5)	2 x 0.4	47	-	1

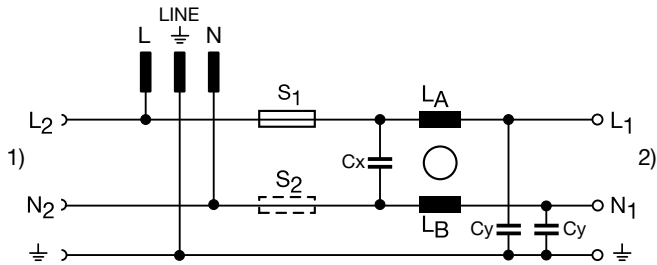
Diagrams

5411



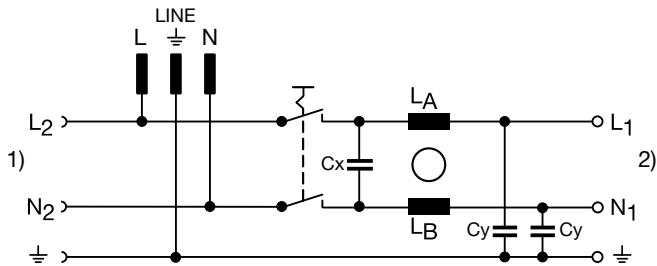
1) Line
2) Load 1

5423



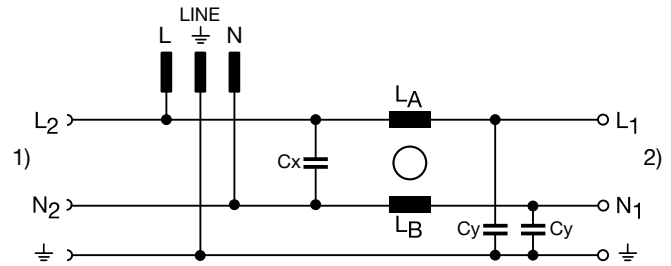
1) Load 2
2) Load 1

5431



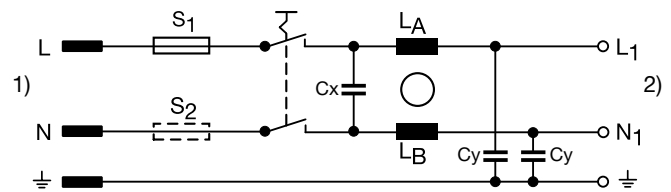
1) Load 2
2) Load 1

5421



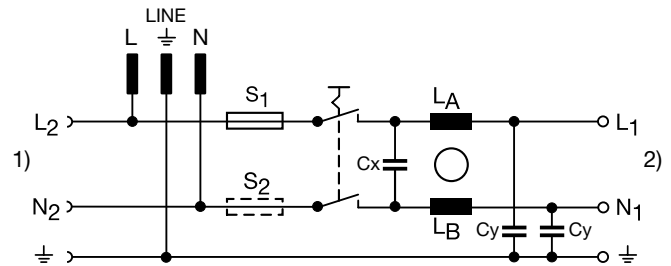
1) Load 2
2) Load 1

5424



1) Line
2) Load 1

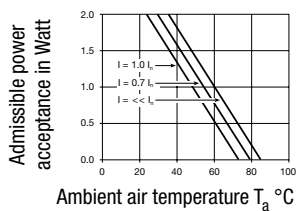
5432



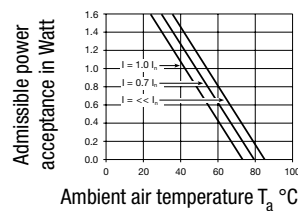
1) Load 2
2) Load 1

Derating Curves

1-pole



2-pole



Ordering instructions

54 XX.X X XX.XX X

Type of line filter
1 = standard
3 = medical

"Snap-in" panel thickness
10 = 1,0 mm
12 = 1,2 mm
15 = 1,5 mm
20 = 2,0 mm
25 = 2,5 mm
30 = 3,0 mm

Connection
51 = solder terminals 3,5 x 0,8 mm
53 = quick connect terminals 6,3 x 0,8 mm

Fuseholder 5 x 20 mm
0 = without fuseholder
1 = 1-pole
2 = 2-pole

Line filter
1 = 1 Amp.
2 = 2 Amp.
4 = 4 Amp.
6 = 6 Amp.
8 = 8 Amp.
9 = 10 Amp.

Module combination
11 = Appliance inlet, fuseholder
21 = Appliance inlet, appliance outlet
23 = Appliance inlet, fuseholder, appliance outlet
24 = Appliance inlet, fuseholder, switch
31 = Appliance inlet, appliance outlet, switch
32 = Appliance inlet, fuseholder, appliance outlet, switch

Base model

All Variants

Type	Rated Current [A]	Filter-Type	Panel Thickness [mm]	connection type	Line Switch	Fuseholder	Connectors	Connector	Order Number
Felcom 54	1	Standard Version	3.0	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.1151.301
Felcom 54	1	Standard Version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.1153.301
Felcom 54	1	Standard Version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.201
Felcom 54	1	Medical Version (M5)	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.303
Felcom 54	2	Standard Version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.251
Felcom 54	2	Standard Version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.2253.301
Felcom 54	2	Medical Version (M5)	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.2253.151
Felcom 54	2	Medical Version (M5)	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.153
Felcom 54	4	Standard Version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.4253.151
Felcom 54	4	Standard Version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.151
Felcom 54	4	Standard Version	2.0	Solder terminals 3.5 x 0.8 mm	2-pole	2-pole	C14	F	5432.4251.201
Felcom 54	4	Standard Version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.4253.201
Felcom 54	4	Medical Version (M5)	1.0	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.4253.103
Felcom 54	4	Medical Version (M5)	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.153
Felcom 54	4	Medical Version (M5)	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.303

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging unit 10 Pcs

Accessories

Description



[Cord retaining kits](#)
Cord retaining strain relief

Flat head, A	4700.0001
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Mating Inlets/Plugs

Category / Description

[Plug Overview complete](#)



IEC Plug E, Cord Connector (Rewireable), Straight, max. cable Diameter 8.5 mm	4732
IEC Plug E, Cord Connector (Rewireable), Straight, max. Cable Diameter 10 mm	4735
IEC Plug E, Cord Connector (Rewireable), Straight	9009
IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 8.5 mm	4733
IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 10 mm	4736
Plug further types to Felcom 54	...

Mating Outlets/Connectors

[Appliance Outlet Overview complete](#)



IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091
Appliance Outlet further types to Felcom 54	

[Connector Overview complete](#)



4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4012
Connector further types to Felcom 54	...