

ebm-papst

Accessories



ebm-papst offers a comprehensive selection of accessories for optimum fan operation, from temperature sensors for speed-controlled fans, to guard grills for all variants, to cables, filters, and screens, to spacers and installation parts. Even with very special accessories, you can be sure that we will assist you every way possible. The sales experts at ebm-papst will be happy to answer your questions about installing and using fans.

From selection to accessories:

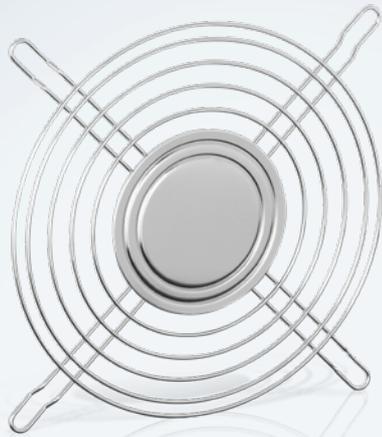
Insist on the efficient and reliable service provided by ebm-papst.

ebmpapst

engineering a better life

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Finger guards



Material

- Galvanized or nickel-plated steel wire

Note

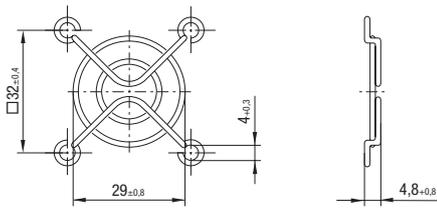
- Finger guard according to DIN EN ISO 13857 (previously EN 294).
- Additional finger guards that do not satisfy DIN EN ISO 13857 available on request.
- Our finger guards are designed specifically to be used with ebm-papst fans. They combine the highest degree of safety with minimum effect on the operating noise. Please note that the safety-related clearances cannot be guaranteed when finger guards made by other manufacturers are used.

More at www.ebmpapst.com

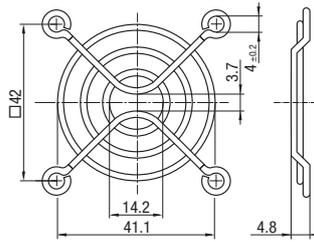
Fan size	Fan type	Type	Part number	Side	Drawing see page
40 x 40	VWCA040F..., VWCC040Y..., VWCE040J...	LZ29-1	9920029001	Intake/Outlet	353
50 x 50	VWCB050F...	LZ31	9920031000	Intake/Outlet	353
60 x 60	VWCB060F..., VWCD060A..., VWCD060X..., VWCD060Y..., VWCE060J...	LZ28	9920028000	Intake/Outlet	353
		LZ28-1	9920028001		
		LZ22-2	9920022002		
80 x 80	VWCD080A..., VWCD080Y..., VWCE080P..., VWCF080J..., VVY0076X...	LZ32-4	9920032004	Intake/Outlet	353
		LZ22-N	9920022001		
		LZ32-14	9920145006		
92 x 92	VWCD092Y..., VWCE092P..., VWCF092J..., VWCF092P..., VWCD092A..., VWCF092A...	LZ23	9920023000	Intake/Outlet	353
		LZ23-1	9920023001		
119 x 119	VWCD119F..., VWCE119P..., VWCF119A..., VUCF119Y..., VWCF119X..., VWCF119A..., VWCD119A...	LZ20	9920020000	Intake/Outlet	353
		LZ30	9920030000		
		LZ30-3	9920030003		
		LZ30-4	9920030004		
127 x 127	VKCF119A... VKCF127A... VWCF127Y...	LZ30-4	9920030004	Intake/Outlet	354
		LZ35	9920035000		
		LZ35-2	9920035002		
135 x 135	VWCF135Y..., VWCF135A...	LZ25	9920025000	Intake/Outlet	354
140 x 140	VUCG140A...	LZ53	9920053000	Intake/Outlet	354
		LZ24	9920024000		
Ø 150	VWEF150X..., VWEH150X...	LZ27	9920027000	Intake/Outlet	355
		LZ36	9920036000		
		LZ26	9920026000		
Ø 172	VWEG172P..., VWEG172X... VKEG178X...	LZ37	9920037000	Intake/Outlet	355
		LZ37-10	9920145004		
		LZ38	9920038000		
		LZ39	9920039000		
172 x 150	VWLG150X...	LZ52	9920052000	Outlet side	355
172 x 160	VKLG160X..., VKS0154X...	LZ38	9920038000	Intake side	
220 x 200	VWLG200F..., VWS0184F...	LZ22	9920022000	Intake/Outlet	355

Subject to changes. Dimensions in mm.

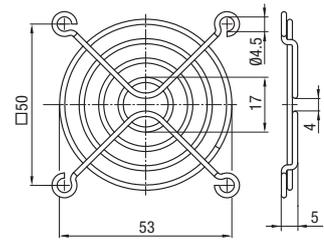
LZ29-1 Fan size 40 x 40



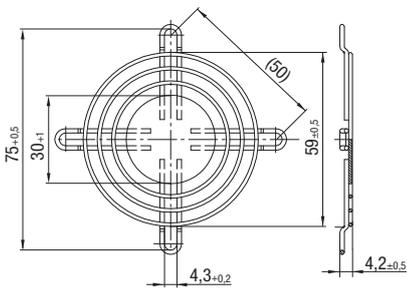
LZ31 Fan size 50 x 50



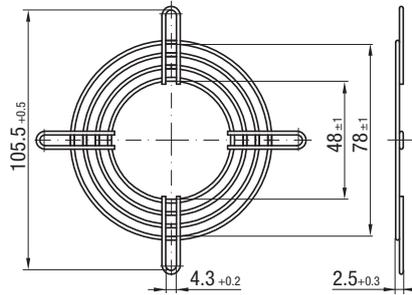
LZ28 Fan size 60 x 60



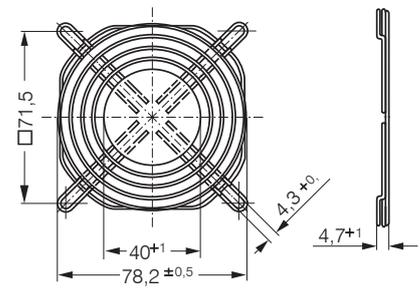
LZ28-1 Fan size 60 x 60



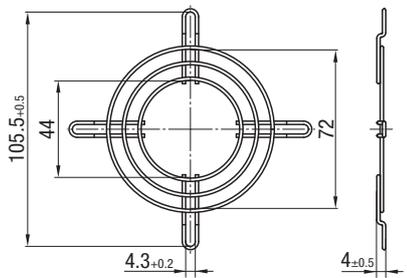
LZ22-2 Fan size 80 x 80



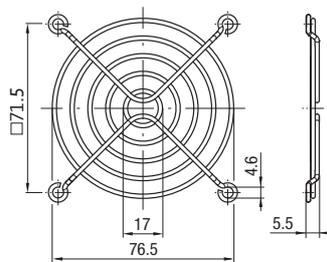
LZ32-4 Fan size 80 x 80



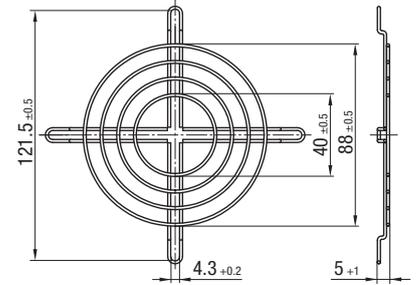
LZ22-N Fan size 80 x 80



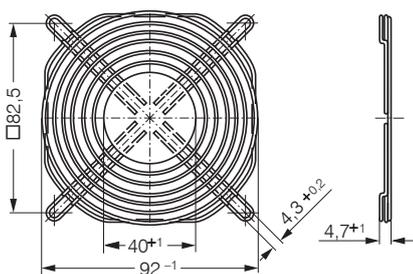
LZ32-14 Fan size 80 x 80



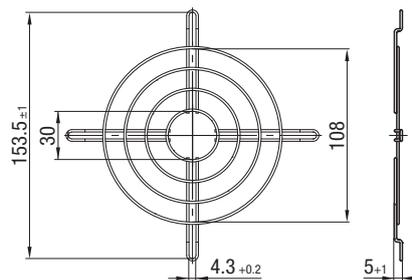
LZ23 Fan size 92 x 92



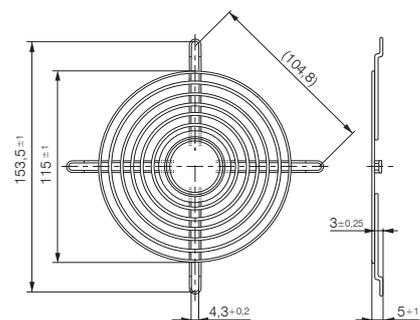
LZ23-1 Fan size 92 x 92



LZ20 Fan size 119 x 119

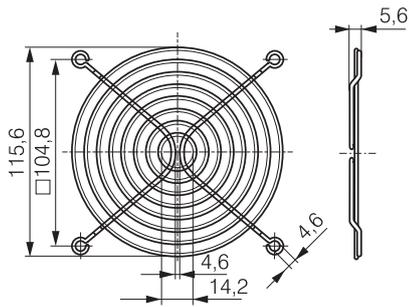


LZ30 Fan size 119 x 119

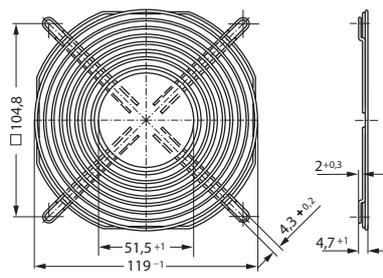


Finger guards

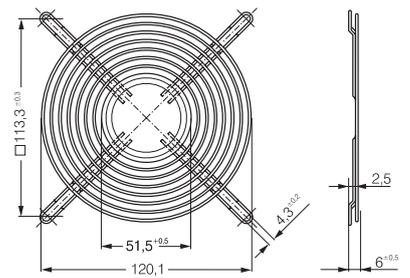
LZ30-3 Fan size 119 x 119



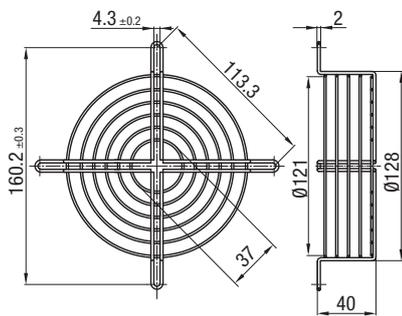
LZ30-4 Fan size 119 x 119



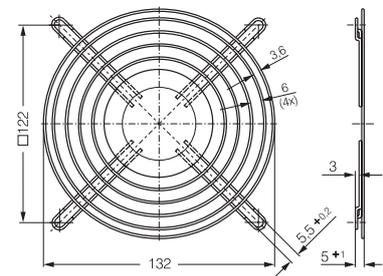
LZ35 Fan size 127 x 127



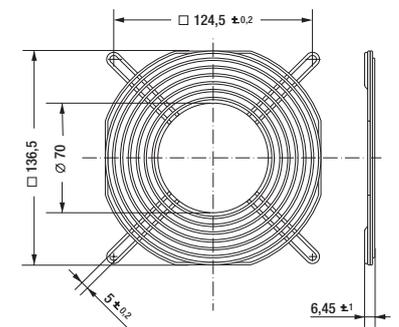
LZ35-2 Fan size 127 x 127



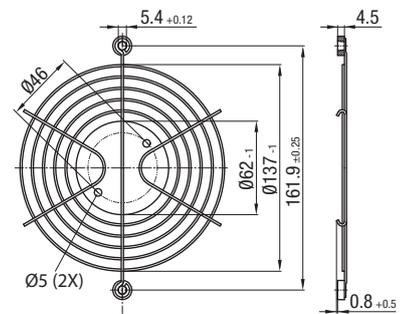
LZ25 Fan size 135 x 135



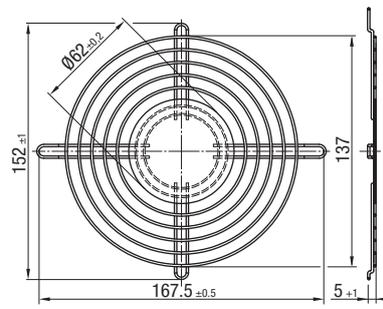
LZ53 Fan size 140 x 140



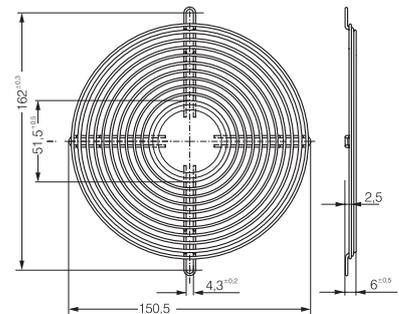
LZ24 Fan size Ø 150



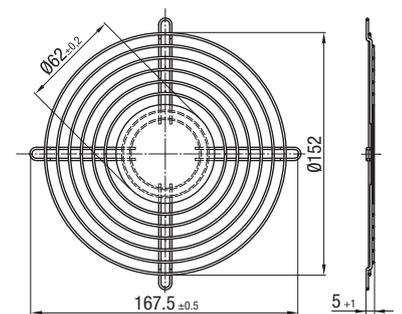
LZ27 Fan size Ø 150



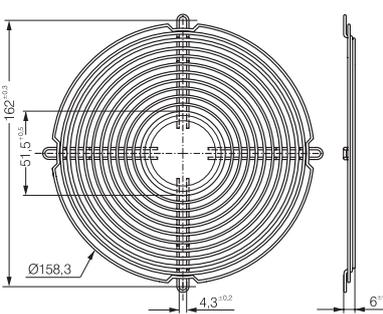
LZ36 Fan size Ø 150



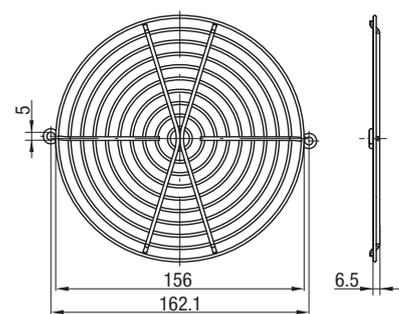
LZ26 Fan size Ø 172



LZ37 Fan size Ø 172

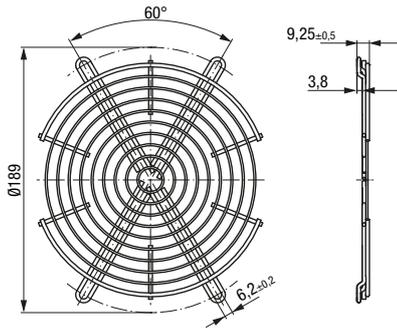


LZ37-10 Fan size Ø 172



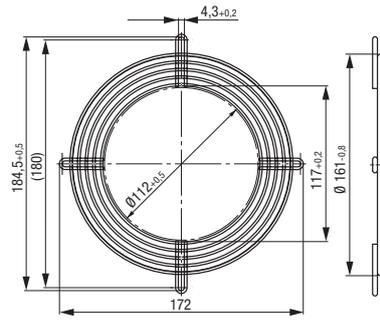
LZ38-1

Lüftereinheit



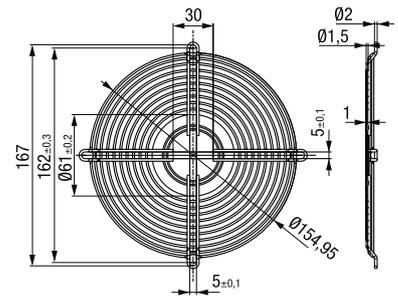
LZ39

Fan size Ø 172



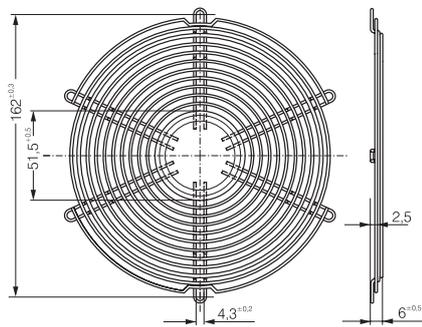
LZ52

Fan size Ø 172



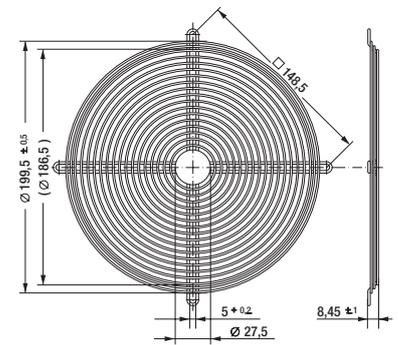
LZ38

Fan size 172 x 150; 172 x 160; Ø 172



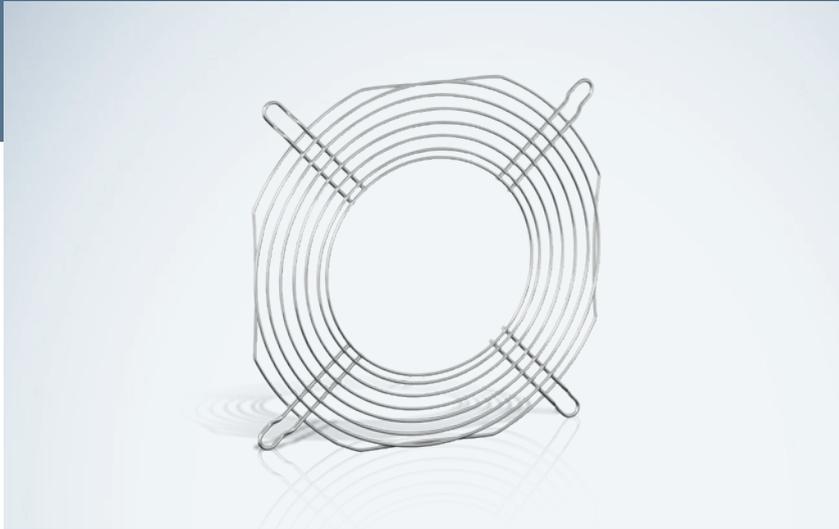
LZ22

Fan size 220 x 200



Finger guards

ACmaxx / ACi



Material

- Galvanized or nickel-plated steel wire

Note

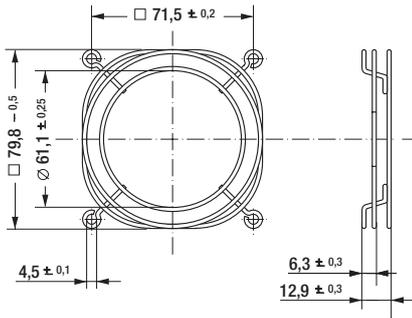
- Finger guard according to DIN EN ISO 13857 (previously EN 294).
- Finger guards for air outlet described on this page are specifically for fan series ACmaxx.
- For air intake side the standard finger guards with a corresponding dimension can be used.

More at www.ebmpapst.com

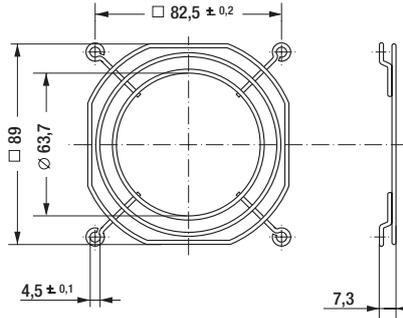
Finger guards made of metal					
Fan size	Fan type	Type	Part number	Side	Drawing see page
80 x 80	VWCE080ASJHS	LZ32-7	9920032007	Outlet side	357
		LZ22-N	9920022001	Intake side	353
		LZ22-2	9920022002		
		LZ32-14	9920145006		
		LZ32-4	9920032004		
92 x 92	VWCJ092JSGKS	LZ23-6	9920023006	Outlet side	357
		LZ23	9920023000	Intake side	353
		LZ23-1	9920023001		
119 x 119	VWCF119Y..., VWCH119FSJMS	LZ20	9920020000	Intake side	353
		LZ30	9920030000		
		LZ30-3	9920030003		
		LZ30-4	9920030004	354	
VWCH119FSJMS	LZ30-9	9920030009	Outlet side		357
Ø 172	VWEK172XSLPS	LZ26	9920026000	Intake side	354
		LZ37	9920037000		
		LZ37-10	9920145004		
		LZ52	9920052000		
		LZ37-2	9920037002	Outlet side	357
Finger guards made of plastic					
Fan size	Fan type	Type	Part number	Side	Drawing see page
119 x 119	VWCH119FSJMS, VWCF119Y...	LZ30-5	9920030005	Intake side	361
		LZ30-6	9920030006		
Ø 172	VWCF119Y...	LZ30-P	9920030001	Intake/Outlet	361
Filter fan guards					
Fan size	Fan type	Type	Part number	Side	Drawing see page
80 x 80	VWCE080ASJHS	FF80	9920034002	Intake side	363
92 x 92	VWCJ092JSGKS	FF92	9920034003	Intake side	363
119 x 119	VWCH119FSJMS	FF119	9920034004	Intake side	363
Ø 172	VWEK172XSLPS	FF172	9920034005	Intake side	363

Subject to changes. Dimensions in mm.

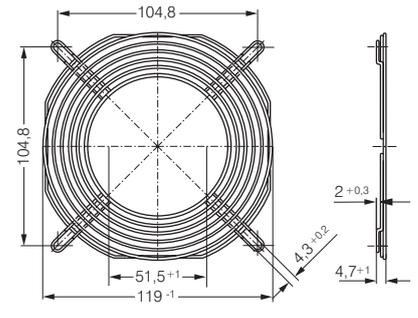
LZ32-7 Fan size 80 x 80



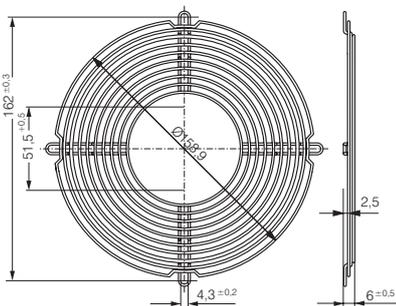
LZ23-6 Fan size 92 x 92



LZ30-9 Fan size 119 X 119



LZ37-2 Fan size $\varnothing 172$



Finger guards



Material

- Steel wire, plastic-coated, with silver-metallic gloss

More at www.ebmpapst.com

Fan size	Fan type	Part number	Side
Ø 200	VWLJ225X...	78128-2-4039	Intake/Outlet
Ø 250	VWLK280X...	09418-2-4039 72880-2-4039	Intake/Outlet

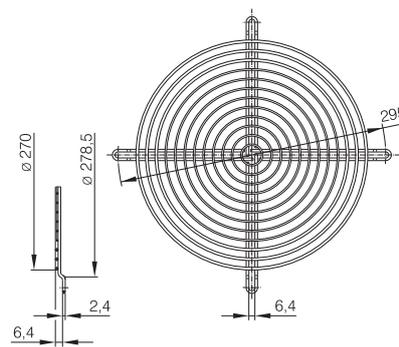
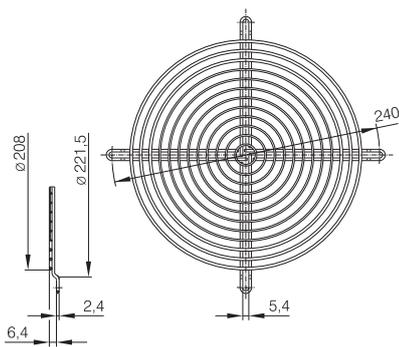
Subject to changes. Dimensions in mm.

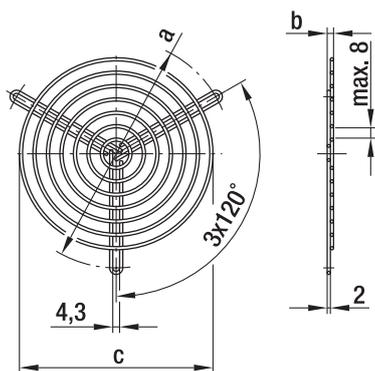
78128-2-4039

Fan size Ø 200

09418-2-4039

Fan size Ø 250

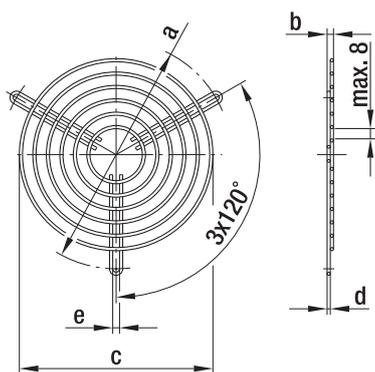




Finger guards for centrifugal blowers with dual inlet
Material: Steel wire

Fan size	Part number	a	b	c	Coating	Highlights
097	83319-2-4039	96.0	3.5	71.0	Phosphated, plastic-coated in RAL no. 9005	for D2E097-CH
	09485-2-4039	114.0	3.5	88.0	Phosphated, plastic-coated in RAL no. 9005	for D2E097-B
133/146	09500-2-4039	145.0	4.0	122.0	Phosphated, plastic-coated in RAL no. 9005	

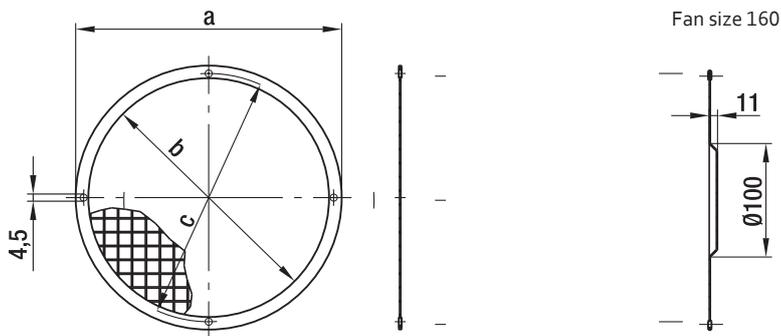
Subject to changes. Dimensions in mm.



Finger guards for centrifugal blowers with dual inlet (versions with EW motor)
Material: Phosphated steel wire, plasticcoated, silver-metallic gloss

Fan size	Part number	a	b	c	d	e
160	35000-2-4039	182.0	12.0	144.0	2.4	4.5

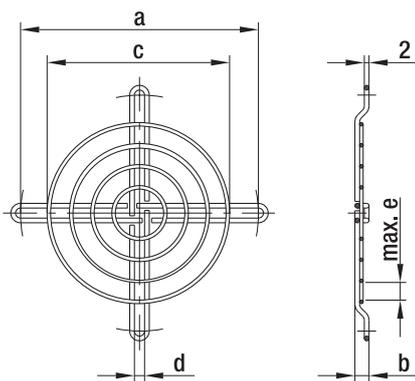
Subject to changes. Dimensions in mm.



Finger guards for centrifugal blowers with single inlet
Material: Welded screens made of hot-dip galvanized steel, border made of tin (0.4 mm thick)

Fan size	Part number	a	b	c	Highlights
085	09489-2-4039	90.0	74.0	84.0	3 drilled holes staggered by 120°
108	09490-2-4039	126.0	110.0	118.0	
120	09494-2-4039	140.0	124.0	132.0	
140/146	09492-2-4039	168.0	152.0	158.0	
160	09503-2-4039	183.0	170.0	175.0	see picture fan size 160

Subject to changes. Dimensions in mm.



Finger guards for centrifugal blowers with single inlet
Material: Steel wire

Fan size	Part number	a	b	c	d	e	Coating
076/085	98214-2-4039	101.0	6.0	79.0	4.3	8.0	Plastic coated, silver-metallic gloss
108	98214-2-4039	120.0	3.5	88.0	4.3	8.0	Plastic coated, silver-metallic gloss
140/146	25028-2-4039	162.0	8.5	139.0	4.3	8.0	Galvanized, chromitized in blue
160	17729-2-4039	175.0	3.5	139.0	4.6	7.0	Galvanized, chromitized in blue

Subject to changes. Dimensions in mm.

Finger guards



Material

- Fiberglass-reinforced plastic

Note

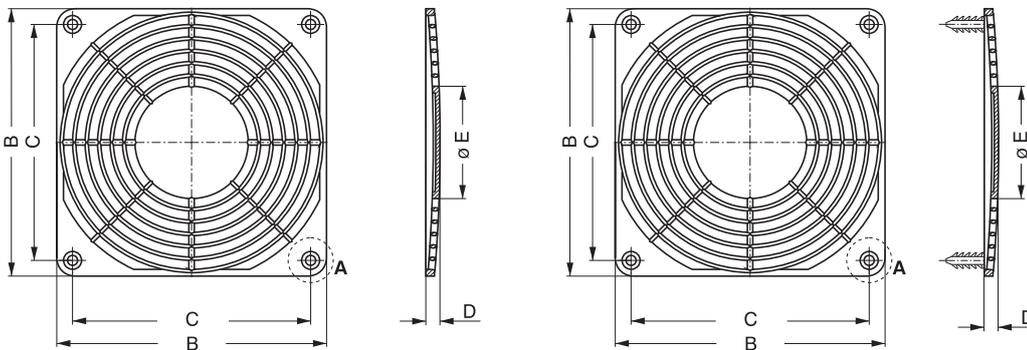
- Finger guard according to DIN EN ISO 13857 (previously EN 294).
- Plastic guards may not be used for the following models:
 - VWCF080J from 12.000 rpm
 - VWCF092J from 11.000 rpm
 - VUCF119Y from 7.500 rpm

More at

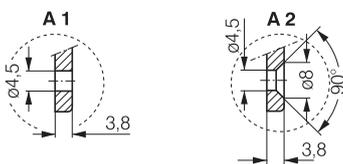
www.ebmpapst.com

Fan size	Fan type	Type	Part number	B	C	D	E	Mounting
60 x 60	VWCB060F..., VWCD060A..., VWCD060X..., VWCD060Y..., VWCE060J...	LZ28-3	9920028003	60 \pm 0.5	50.0 \pm 0.2	3.0	24	A3
		LZ32-2	9920032002					A1
80 x 80	VWCD080A..., VWCD080Y..., VWCE080P..., VWCF080J..., VWCF080A...	LZ32-P	9920032001	80 \pm 0.5	71.5 \pm 0.2	7.0	34	A2
		LZ32-3	9920032003					A3
92 x 92	VWCD092Y..., VWCE092P..., VWCF092J..., VWCF092P..., VWCD092A..., VWCF092A...	LZ23-2	9920023002	92 \pm 0.5	82.5 \pm 0.2	6.5	46	A1
		LZ23-3	9920023003					A3
119 x 119	VWCD119F..., VWCE119P..., VWCF119A..., VUCF119Y..., VWCF119X..., VWCD119A..., VKCF119A...	LZ30-5	9920030005	119 \pm 0.5	105 \pm 0.2	6.5	50	A2
		LZ30-6	9920030006					A4
		LZ30-P	9920030001					A2
127 x 127	VWCF127Y..., VKCF127A...,	LZ33-1	9920033001	127 \pm 0.5	113 \pm 0.2	6.5	50	A2
		LZ33-2	9920033002					A4

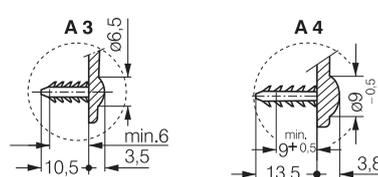
Subject to changes. Dimensions in mm.



Screw connection



Barbed inserts



Only suitable for bore hole diameter 4.3 - 4.7.

Filter fan guards

119 x 119



Material

- Filter guard LZ40 N: black, fiberglass-reinforced plastic with inserted wire mesh LZ60.
- Coarse filter LZ60: stainless steel wire mesh
- Mounting lug LZ40-1 for mounting

More at

www.ebmpapst.com

Fan type DC

VWCD119F..., VWCE119P..., VWCF119A..., VUCF119Y..., VKCF119A...

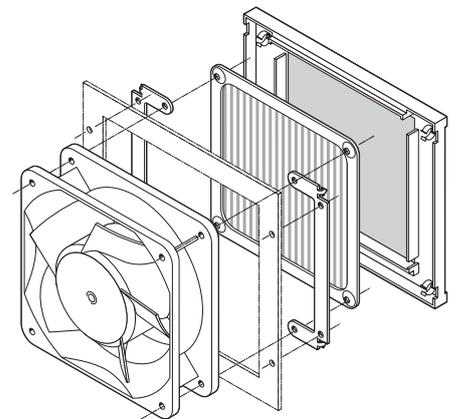
Fan type AC

VWCD119A..., VWCF119X..., VWCF119A..., VWCH119FSJMS

Fan type ACi

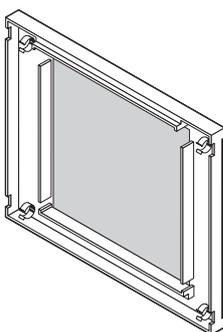
VWCF119Y...

Subject to changes. Dimensions in mm.



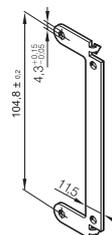
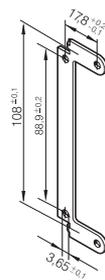
LZ40N

Filter guard



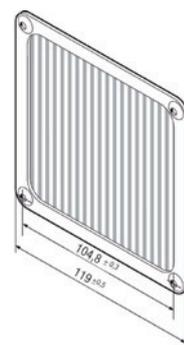
LZ40-1

Mounting lug



LZ60

Coarse filter



Filter fan guards



Material

- Guard cover: Injection-molded polycarbonate (PC) with mat surface.
- Mounting plate: wire mesh with black powder coating
- Filter pad: white, synthetically bonded fibers

Note

- Filter fan guards suitable for fitting on axial fan series in sizes: 60 mm, 80 mm, 92 mm, 119 mm, \varnothing 172 mm.
- All filter units fit directly on the existing mounting holes of the fans.
- Filter fan guards consisting of 3 parts: external guard cover, internal mounting plate, and replaceable filter pad.
- The filter pad can be replaced quickly and easily via a quick release on the guard cover.
- The filter pads can be replaced even while the fan is running, as protection is provided by the welded wire mesh.

More at

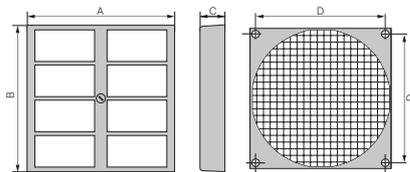
www.ebmpapst.com

Fan size	Fan type	Type	Part number	A	B	C	D	Repl. filter*
60 x 60	VWCB060F..., VWCD060A..., VWCD060X..., VWCD060Y..., VWCE060J...	FF60	9920340001	65	65	13.5	50.0	RF 60
80 x 80	VWCD080A..., VWCD080Y..., VWCE080P..., VWCF080J..., VWCF080A...	FF80	9920340002	85	85	14.0	71.5	RF 80
92 x 92	VWCD092Y..., VWCE092P..., VWCF092J..., VWCF092P..., VWCD092A..., VWCF092A...	FF92	9920340003	125	105	17.5	82.5	RF 92
119 x 119	VWCD119F..., VWCE119P..., VWCF119A..., VUCF119Y..., VWCF119X..., VWCD119A...	FF119	9920340004	162	136	18.5	104.5	RF 119
\varnothing 172 172 x 150 172 x 160	VKEG178X..., VWEG172X..., VWEG172P..., VKLG160X..., VWLG150X..., VKS0154X...	FF172	9920340005	226	190	19.5	162.0	RF 172

Subject to changes. Dimensions in mm. * Replacement filter available only in packages of 5.

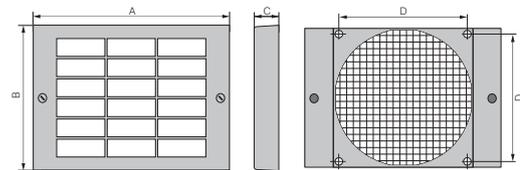
FF60 / FF80

Fan size: 60 x 60 mm / 80 x 80 mm



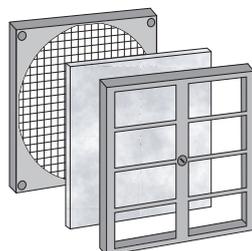
FF92 / FF 119

Fan size: 92 x 92 mm / 119 x 119 mm



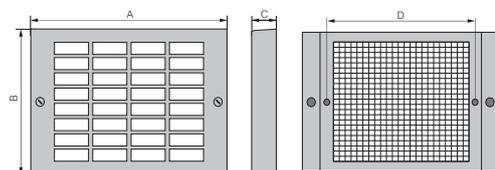
Filter performance

The filter fan guard filters 75 % of dust particles with a size of 5-10 microns and can withstand temperatures of up to 100 °C. Filter class G3 according to DIN EN 779. Flame-retardant according to DIN 53438, class F1. When a clean filter is installed, a reduction of air flow of 20-30 % is possible.



FF 172

Fan size: \varnothing 172 mm



Finger guards

For compact centrifugal modules



Material

- PA plastic, fiberglass-reinforced

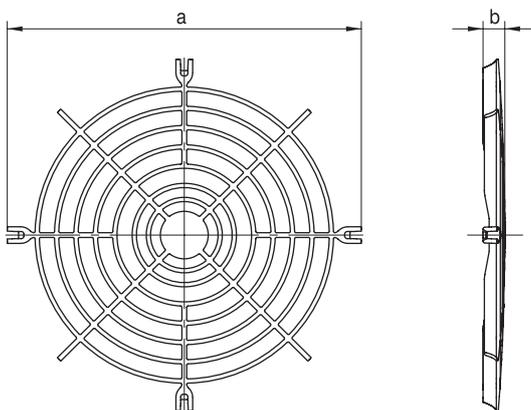
Highlights

- Flame protection class in line with UL 94V-0

More at www.ebmpapst.com

Fan size	Fan type	Type	Part number	a	b
Ø 190	VCS0190R...	LZ46-1	9920046001	133	9.0
Ø 220	VCS0220R...	LZ47-1	9920047001	166	8.7
Ø 225	VCS0225R...	LZ48-1	9920048001	158	8.7

Subject to changes. Dimensions in mm.



Air inlet grill



Material

- PA plastic, fiberglass-reinforced

Highlights

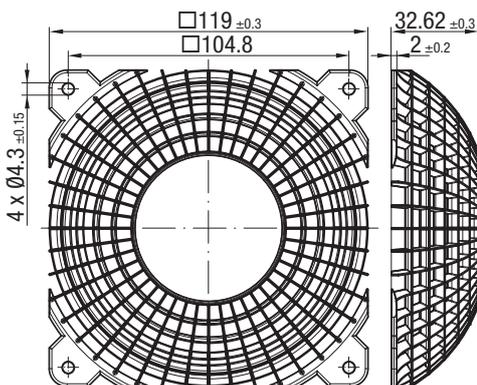
- For axial and diagonal fans
- Assembled on the air intake, the fan grid reduces the noise emission dramatically and minimizes disturbing low frequency sound.

More at

www.ebmpapst.com

Fan size	Fan type	Type	Part number	Side
119 x 119	VWCF119Y..., VWCF119A..., VWCD119F..., VWCH119F..., VWCE119P..., VUCF119Y..., VWCF119X..., VWCD119A..., VKCF119A...	FG 119	9920070000	Intake side

Subject to changes. Dimensions in mm.

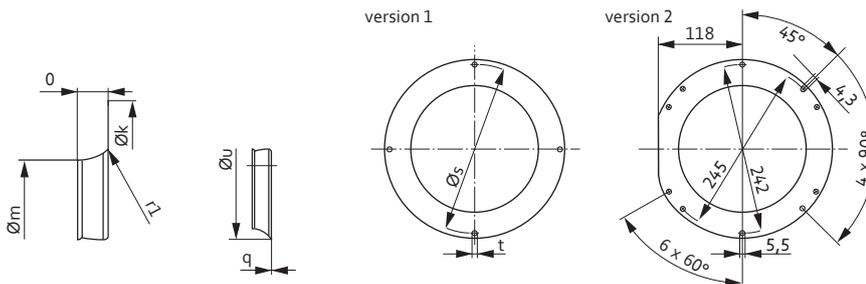


Inlet rings

For centrifugal fans

Material

- Galvanized sheet steel

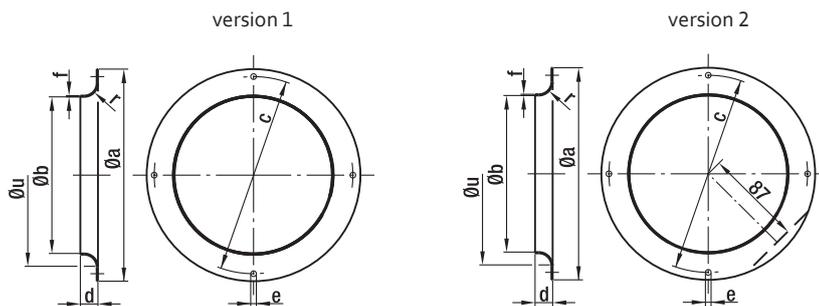


Inlet rings for backward curved centrifugal fans

Fan size ¹⁾	Type	Part number	version	k	m	o	q	r1	s	t	u
RER 120 (S)/120 (K)	LZ 1000-120	96120-2-4013	1	146.0	94.4	18.0	0.80	16.0	134.0	4 x 4.5	126.0
RER 133 (K)	LZ 1000-133	09566-2-4013	1	129.0	87.0	13.0	1.00	8.0	118.0	4 x 4.5	103.0
RER 160 (S)	LZ 1000-160	09569-2-4013	1	142.0	100.0	9.0	1.00	8.0	132.0	4 x 4.5	-
RER 175/190 (K)	LZ 1000-175	09576-2-4013	1	170.0	125.5	14.0	1.25	10.0	158.0	4 x 4.5	146.0
RER 220 TD (K)	LZ 1000-220	09609-2-4013	2	252.0	155.0	21.0	0.80	21.8	242.0	6 x 5.5	119.0
RER 225 TD (K)	LZ 1000-225	96358-2-4013	1	223.0	146.0	28.0	1.50	25.0	210.0	4 x 4.5	196.0

Subject to changes. Dimensions in mm.

¹⁾ Fan size with key for impeller material: (P) = plastic, (S) = sheet steel, (A) = aluminum



Inlet rings for forward curved centrifugal fans

Fan size	Part number	version	a	b	c	d	e	f	r	u	Highlights
085	09560-2-4013	1	92.0	63.4	84.0	6.0	3 x 4.2	0.80	6.8	-	3 drilled holes staggered by 120°
097	09563-2-4013	1	116.0	80.0	108.0	10.0	3 x 4.5	0.80	10.0	-	3 drilled holes staggered by 120°
108	09566-2-4013	1	129.0	87.0	118.0	13.0	4 x 4.5	1.00	8.0	-	
120	09569-2-4013	1	142.0	100.0	132.0	9.0	4 x 4.5	1.00	8.0	-	
133	09572-2-4013	1	150.0	112.0	142.0	12.0	4 x 4.5	1.00	10.0	-	
140/146	09576-2-4013	1	170.0	125.5	158.0	14.0	4 x 4.5	1.25	10.0	-	
160	09588-2-4013	2	185.0	130.0	175.0	17.0	4 x 4.5	0.75	12.0	-	

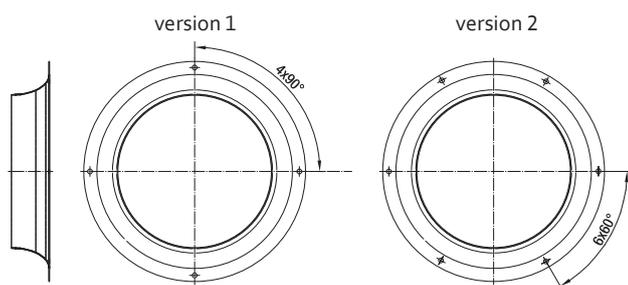
Subject to changes. Dimensions in mm.

Inlet ringn / Luftfilter

für Centrifugallüfter

Material

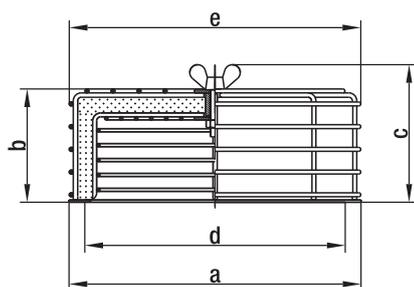
- Galvanized sheet steel



Inlet rings without measuring device for backward curved centrifugal fans

Fan size	Part number	version	Dimensions
190	09576-2-4013	1	See corresponding product page
220	09609-2-4013	2	See corresponding product page
225	96358-2-4013	1	See corresponding product page
250	96359-2-4013	1	See corresponding product page
280	28000-2-4013	1	See corresponding product page
310	31000-2-4013	1	See corresponding product page

Subject to changes. Dimensions in mm.



Material

- Steel wire or sheet steel, plastic coated in RAL no. 9005, black

Filter

- Viledon filter type R: PSB / 29 OS (according to DIN 24185)
- Separation capacity: < 86 %
- Efficiency: < 20 %
- Dust binding capacity: 650 g/m²

Air filters for centrifugal blowers (with die-cast aluminum housing)

Fan size	Part number	a	b	c	d	e	Replacement filter
108/120	95777-1-5171	142.0	66.0	83.0	118-132	145.0	95779-1-5171
140/146/160	95778-1-5171	185.0	74.0	91.0	158-175	185.0	95780-1-5171

Subject to changes. Dimensions in mm.

Cables



Characteristics

- Cable with molded plug connection in varying lengths.
- Wire end with wire end ferrules, crimped ferrules, or tin-plated.
- Straight or angled plug.
- For all fan types with flat plug 2.8 / 3.0 x 0.5.

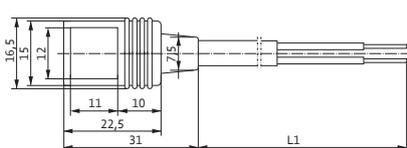
More at www.ebmpapst.com

Part number	Type	L1	Wires	Plug	Wire end	Flat push-on receptacle	Application
9920120000	LZ120	610	0.5 mm ²	G	C	2.8 x 0.5	AC
9920120004	LZ120-4	2 000	0.5 mm ²	G	A	2.8 x 0.5	AC
9920120005	LZ120-5	380	0.5 mm ²	W	B	2.8 x 0.5	DC
9920120006	LZ120-6	610	0.5 mm ²	W	B	2.8 x 0.5	DC
9920120010	LZ120-10	2 500	0.5 mm ²	G	B	2.8 x 0.5	AC
9920120011	LZ120-11	2 000	0.5 mm ²	G	A	2.8 x 0.5	DC
9920120013	LZ120-13	5 000	0.5 mm ²	G	B	2.8 x 0.5	AC
9920120016	LZ120-16	800	0.5 mm ²	G	B	2.8 x 0.5	AC
9920120017	LZ120-17	3 000	0.5 mm ²	G	A	2.8 x 0.5	AC
9920120018	LZ120-18	4 000	0.5 mm ²	G	A	2.8 x 0.5	AC
9920126000	LZ126	1 000	0.5 mm ²	G	C	2.8 x 0.5	AC
9920127000	LZ127	1 600	0.5 mm ²	G	B	2.8 x 0.5	AC
9920130001	LZ130-1	610	0.82 mm ²	G	C	2.8 x 0.5	AC*
9920140000	LZ140	610	0.73 mm ²	G	B	2.8 x 0.8	AC

Subject to changes. Dimensions in mm.
* UL-approved

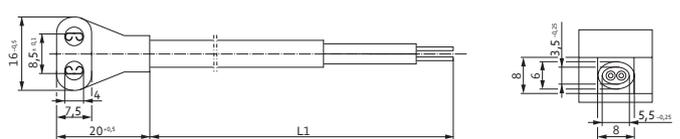
Cable

Straight plug (G)



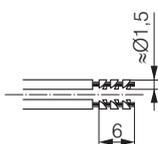
Cable

Angled plug (W)



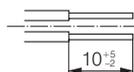
Wire end ferrules

Wire end A



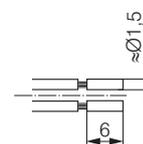
Tin-plated

Wire end B

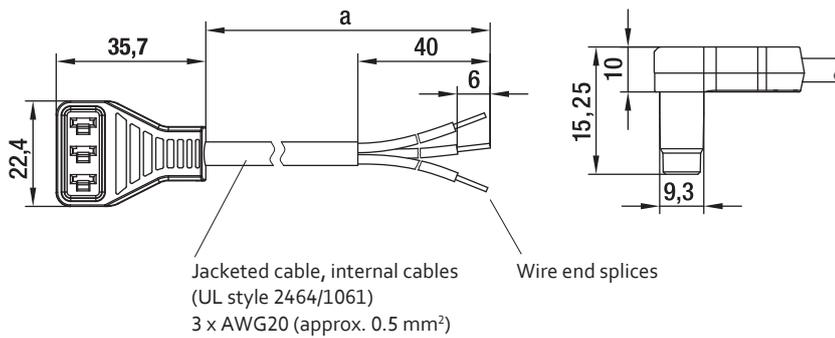


Wire end ferrules

Wire end C



Cable (ESM) / Handheld Programmer



Design

- Cable conforms to UL standards sealed plug.
- Customized cables on request.

Cables for energy-saving motors 115/230 VAC

Part number	a
13060-4-1040	450
13061-4-1040	1 500

Subject to changes. Dimensions in mm.



Characteristics

- Easy speed programming
- Battery operated
- User-friendly navigation menu
- Protective cover with folding stand

For Energy Saving Motor (ESM) based products

Part number
CBC 000-AF08-01

Subject to changes. Dimensions in mm.

Makes quick work of programming the two ESM adjustable operating speeds. Eliminates the need for a PC, software adapter and second cable. Especially for use in production or by sales representatives. Automatic shut-off function for extended battery life. Mini USB plug for downloading software updates. Batteries, programming cable, and operating instructions included in scope of delivery.