

# Hazardous Area Loudspeaker - 25 or 15 W Series 8494



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17077E00

- > Max. sound pressure level 121 dB(A)
- > Extreme temperature range -50 ... +60 °C
- > Degree of protection IP66 & 67
- > Antistatic polyamid enclosure
- > Stainless steel fixings
- > Ex e terminal compartment
- > Spring clamp terminals
- > Corrosion resistant product



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25 or 15 Watt loudspeakers designed for use in hazardous areas and harsh environments. Series 8494 is constructed using antistatic polyamid which provides a light weight, robust, corrosion resistant enclosure. Options include wattage, impedance or a transformer variant with tapings at 15, 6.5, 5, 2.5, 1.5 W to provide maximum flexibility for users.

The short flare version provides wide area sound dispersal in a compact enclosure. The long flare version gives increased sound pressure levels and audibility.

	ATEX / IECEx						Zone	NEC 505 Class I			NEC 506		
	0	1	2	20	21	22		0	1	2	20	21	22
For use in		x	x		x	x	For use in	x					

**WebCode 8494A**

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## Series 8494



### Explosion Protection

#### Global (IECEX)

Gas and dust

IIB + H2, IIC	IECEX PRE 14.0058X
IIB + H2	II 2 G Ex d e mb IIB+H2 T4 (-50 °C ≤ Ta ≤ +60 °C) Gb IP66/67 II 2 D Ex tb IIIC T105 °C (-50 °C ≤ Ta ≤ +60 °C) Db IP66/67
IIC	II 2 G Ex d e mb IIC T4 (-50 °C ≤ Ta ≤ +60 °C) Gb IP66/67 II 2 D Ex tb IIIC T105 °C (-50 °C ≤ Ta ≤ +60 °C) Db IP66/67

#### Europe (ATEX)

Gas and dust

IIB + H2, IIC	PRE 14 ATEX 5555X
IIB + H2	⊕ II 2 G Ex d e mb IIB+H2 T4 (-50 °C ≤ Ta ≤ +60 °C) Gb IP66/67 ⊕ II 2 D Ex tb IIIC T105 °C (-50 °C ≤ Ta ≤ +60 °C) Db IP66/67
IIC	⊕ II 2 G Ex d e mb IIC T4 (-50 °C ≤ Ta ≤ +60 °C) Gb IP66/67 ⊕ II 2 D Ex tb IIIC T105 °C (-50 °C ≤ Ta ≤ +60 °C) Db IP66/67

#### North America (NEC, CEC)

Gas and dust

IIB + H2, IIC	CAN/CSA-C22.2 No. 60079-0:2011 & UL 60079-0:2009, CAN/CSA-C22.2 No. 60079-1:2011 & UL 60079-1:2009, CSA-C22.2 No. 60065-03:2012 & UL 60065:2007
IIB + H2	Class 1 Zone 1 AEx d IIB+H2 T4 Gb -50 °C ≤ Ta ≤ +50 °C, IP 66/IP67
IIC	Class 1 Zone 1 AEx d IIC T4 Gb -50 °C ≤ Ta ≤ +50 °C, IP 66/IP67

#### Certifications and certificates

Certificates

IECEX, ATEX, Canada (cLCus), USA (cLCus)

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## Series 8494



### Technical Data

#### Electrical data

<b>Device version</b>	
Line options	100 V or 70 V
Impedance	8 or 20 Ω

#### Acoustic data

Short flare version	8494/-S-...-...-...	IIB + H2	IIC
Sound pressure level at 1 W		105 dB (A) 1 W / 1m	102 dB (A) 1 W / 1m
Sound pressure level at 25 W		118 dB (A) 1m	115 dB (A) 1m
Frequency range		330 - 7000 Hz	450 - 6000 Hz
Dispersion (-6 dB)			
1 kHz		200°	105°
4 kHz		47°	35°
Directivity factor at 1 kHz		1.8	1.8
Sound pressure level vs frequency at 1 W			
Long flare version	8494/-L-...-...-...	IIB + H2	IIC
Sound pressure level at 1 W		109 dB (A) 1 W / 1m	106 dB (A) 1 W / 1m
Sound pressure level at 25 W		121 dB (A) 1m	118 dB (A) 1m
Frequency range		330 - 7000 Hz	450 - 6000 Hz
Dispersion (-6 dB)			
1 kHz		81°	73°
4 kHz		37°	33°
Directivity factor at 1 kHz		4.5	4.5
Sound pressure level vs frequency at 1 W			

#### Ambient conditions

Operating temperature range	-50 ... +60 °C
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#### Mechanical data

Cable entries	2 x M20 supplied with 2 x dust cover
Material	
Enclosure	Anti static polyamid
Flare	Anti static polyamid
Bracket	Anti static polyamid supplied as standard
Labels	Polyester foil
External fixings	Stainless steel
Degree of protection	IP66 / IP67 acc. to IEC 60529

#### Mounting / Installation

Mounting	via bracket
Connection	4 mm spring clamp terminals

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# Hazardous Area Loudspeaker - 25 or 15 W Series 8494





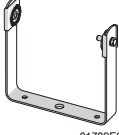
**Selection Table - Standard Variants**

Version	Group	Flare size	Watt options	Impedance / Transformer	Order number	Art. no.	Weight kg
Hazardous area loudspeaker - 25 Watt Series 8494, standard devices	IIC	short	25 W	8 Ω	<b>8494/C-S-EN-ST-12-00</b>	<b>242300</b>	2.200
				20 Ω	<b>8494/C-S-EN-ST-13-00</b>	<b>242301</b>	2.200
		25 W + tapplings	100 V line transformer	<b>8494/C-S-EN-ST-14-00</b>	<b>242302</b>	2.200	
	long	25 W	8 Ω	<b>8494/C-L-EN-ST-12-00</b>	<b>242310</b>	2.800	
			20 Ω	<b>8494/C-L-EN-ST-13-00</b>	<b>242311</b>	2.800	
		25 W + tapplings	100 V line transformer	<b>8494/C-L-EN-ST-14-00</b>	<b>242312</b>	2.800	

**Selection Table**

Version	Variations Type code: please fill in fields	Order Number
Hazardous area loudspeaker Series 8494, acc. to specification	Order Number	8494/ - - - - -
	<b>Gas group</b>	
	IIB + H2	<b>B</b>
	IIC	<b>C</b>
	<b>Flare</b>	
	short	<b>S</b>
	long	<b>L</b>
	<b>Certification</b>	
	ATEX / IECEx / NEC/CEC 505	<b>EN</b>
	<b>Company specification</b>	
	standard	<b>ST</b>
	<b>Options</b>	
	15 W 8 Ω	<b>10</b>
	15 W 20 Ω	<b>11</b>
25 W 8 Ω	<b>12</b>	
25 W 20 Ω	<b>13</b>	
25 W 100 V line transformer	<b>14</b>	
15 W 100 V line transformer	<b>15</b>	
8 W 100 V line transformer	<b>16</b>	
25 W 70 V line transformer	<b>17</b>	
15 W 70 V line transformer	<b>18</b>	
8 W 70 V line transformer	<b>19</b>	
<b>Local certification</b>		
standard	<b>00</b>	

**Accessories and Spare Parts**

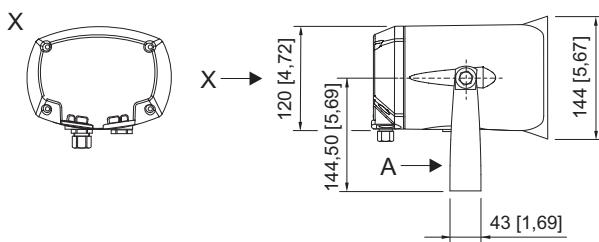
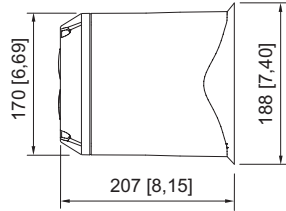
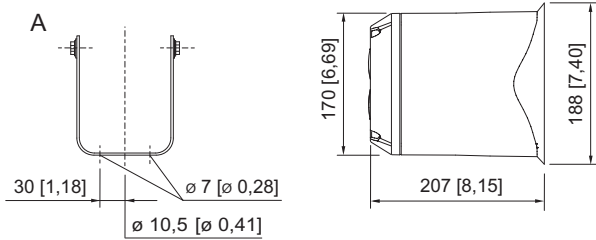
Designation	Figure	Description	Order number	Art. no.	Weight kg
Cable gland	 02055E00	8161/7-M20-1304 4 ... 13 mm <sup>2</sup>	50 pieces (delivery lot*)	<b>8161/7-M20-1304</b>	<b>239156</b> 0.600
Stopping plug	 04840E00	8290/3-M20	1 piece	<b>8290/3-M20</b>	<b>143522</b> 0.005
		8290/3-M20	100 pieces	<b>8290/3-M20</b>	<b>143543</b> 0.500
Bracket	 01789E00	stainless steel	1 piece	<b>on request</b>	

\*) Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

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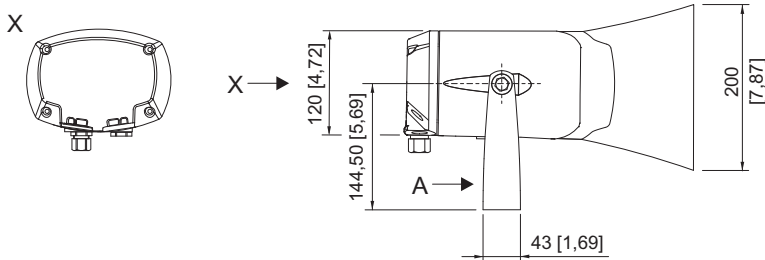
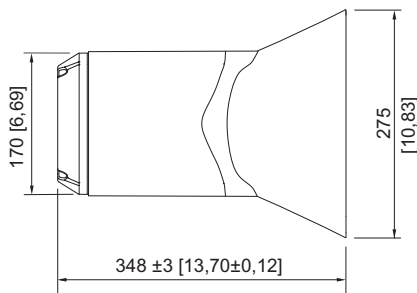
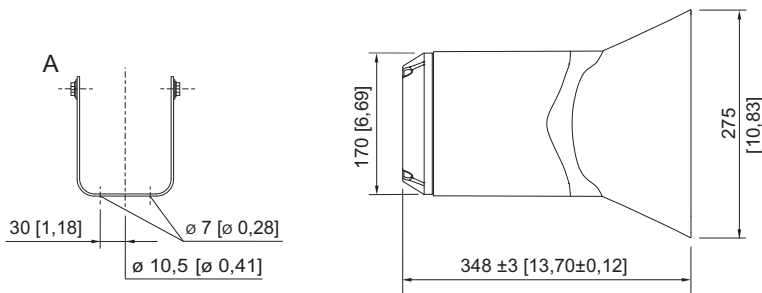


## Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



**Hazardous Area Loudspeaker - Short Flare  
Series 8494**  
Bracket (A) supplied as standard

17003E00



**Hazardous Area Loudspeaker - Long Flare  
Series 8494**  
Bracket (A) supplied as standard

16814E00

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.

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