

## Signal Horn 105 dB (A) Series 8491/1, 8491/2



- > Fixed signal tone
- > Volume max. 105 db (A) / 1 m
- > Installation by means of angle mounting
- > AC and DC versions
- > **Signal horn Series 8491/1**
  - with trumpet and connection cable
- > **Signal horn Series 8491/2**
  - compact design with connection chamber and cable gland

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10616E00

The signal horns Series 8491 are audio signalling devices designed to warn, call and indicate in hazardous areas. They are made of a robust PC/ABS blend. The horns generate a sound level of approximately 105 db (A) at a distance of 1 m. Installation is realised by means of angle mounting.

The versions of Series 8491/1 have been developed for use in areas with an explosive gas atmosphere. They have a trumpet for optimum sound concentration as well as a connection cable.

The compact signal horns Series 8491/2 have a connection chamber and can be used indoors and outdoors in areas with explosive gas atmosphere.

Zone	ATEX / GOST					
	0	1	2	20	21	22
8491/1: For use in		x	x			
8491/2: For use in		x	x		x	x



WebCode 8491 A

# Signal Horn 105 dB (A)

Series 8491/1, 8491/2



## Selection Table

Version	Rated operational voltage	Order number	Art. no.	Weight kg
 00448E00	24 V AC, 50 Hz	<b>8491/11-024</b>	<b>145276</b>	1.450
	42 ... 48 V AC, 50 Hz	<b>8491/11-042</b>	<b>145278</b>	1.450
	115 V AC, 50 / 60 Hz 120 V AC, 60 Hz	<b>8491/11-115</b>	<b>145279</b>	1.450
	230 V AC, 50 Hz	<b>8491/11-230</b>	<b>145280</b>	1.450
	24 V DC	<b>8491/15-024</b>	<b>145275</b>	1.450
 10614E00	24 V AC, 50 Hz	<b>8491/21-024</b>	<b>145282</b>	1.500
	42 ... 48 V AC, 50 Hz	<b>8491/21-042</b>	<b>145283</b>	1.500
	115 V AC, 50 / 60 Hz 120 V AC, 60 Hz	<b>8491/21-115</b>	<b>145284</b>	1.500
	230 V AC, 50 Hz	<b>8491/21-230</b>	<b>145285</b>	1.500
	24 V DC	<b>8491/25-024</b>	<b>145281</b>	1.500

## Explosion Protection

	8491/1	8491/2
<b>Europe (ATEX)</b> Gas and dust	BVS 03 ATEX E 159 X ⊕ II 2 G Ex m II T5 --	BVS 03 ATEX E 159 X ⊕ II 2 G Ex me II T5 ⊕ II 2 D IP65 T70°C

## Certificates and approvals

Certificates	8491/1	8491/2
	ATEX, China (CQST Ex), India (PESO), Kazakhstan (GOST-K), Russia (GOST-R), Ukraine (GOST-U), Belarus (GOST-B)	ATEX, China (CQST Ex), Kazakhstan (GOST-K), Ukraine (GOST-U), Belarus (GOST-B)

## Technical Data

### Electrical data

Rated operational voltage	see selection table			
Back-up fuse	at rated operational voltage	fuse nominal value	rated operational current	back-up fuse type 8560*
	24 V AC, 50 Hz	630 mA	450 mA	8560/51-4153
	42 ... 48 V AC, 50 Hz	315 mA	200 mA	8560/51-4153
	115 V AC, 50 / 60 Hz	315 mA	205 mA	8560/51-4113
	120 V AC, 60 Hz	315 mA	220 mA	8560/51-4113
	230 V AC, 50 Hz	125 mA	70 mA	8560/51-4073
	24 V DC	500 mA	350 mA	8560/51-4143

\* to be installed into an Ex e enclosure "Increased safety", for example type 8118/113-303

Duty cycle 70%

### Acoustic data

Volume max. 105 dB (A) / 1 m

### Ambient conditions

Ambient temperature - 40 ... + 50 °C

### Mechanical data

	8491/1	8491/2
Degree of protection	IP55	IP65
Material		
Enclosure	PC/ABS, black	PC/ABS, black
Connection type	LAPPTHERM 145, 2 x 0.75 mm <sup>2</sup> , 3 m	screw terminal in the connectin chamber max. connection cross-section 2.5 mm <sup>2</sup> 1 x M16 cable gland 6.5 ... 9.5 mm cable dia. range

### Assembly / Installation

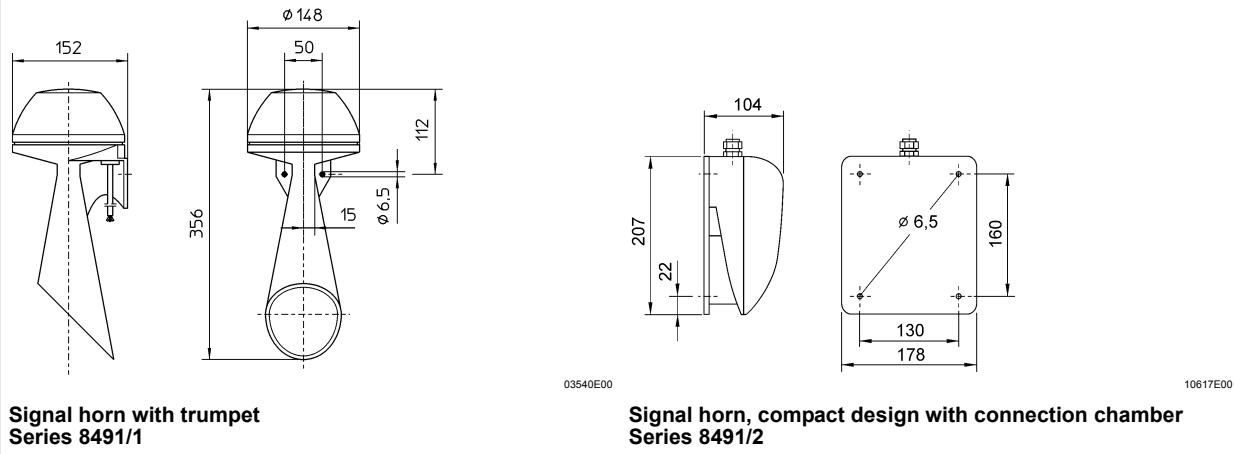
	8491/1	8491/2
Installation position	sound direction downwards	optional (exception: sound direction not upwards)

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Series 8491/1, 8491/2



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



**Signal horn with trumpet**  
**Series 8491/1**

**Signal horn, compact design with connection chamber**  
**Series 8491/2**

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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