

# ANNUNCIATORS



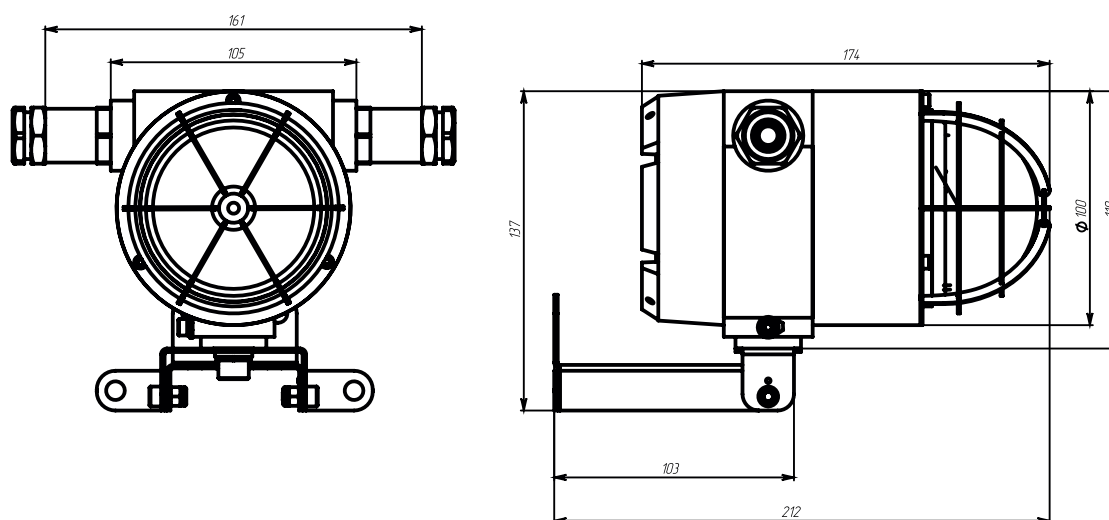
## VS-07e-Ex-S

### Light Fire Annunciators

The light fire annunciator VS-07e-Ex-S is designed for generation of alarm light signals in fire and security alarm systems, in joint operation with any fire alarm control units. The annunciator can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations. It is used at chemical, oil and gas production, oil and gas processing industry enterprises and in explosive areas of other production facilities.



## DIMENSIONS



1Ex db IIC  
T6...T5 Gb X

IP67/  
IP68











10 000  
lx



# ANNUNCIATORS

## TECHNICAL DATA:

Modification	VS-07e-Ex-SD Light explosion-proof fire annunciator with LED lamp	VS-07e-Ex-SL Light explosion-proof fire annunciator with flash photoilluminating lamp (strobe light)	VS-07e-O-SD Light general industrial purpose fire annunciator with LED lamp	VS-07e-O-SL Light general industrial purpose fire annunciator with flash photoilluminating lamp (strobe light)
				
Enclosure explosion proofness marking	1Ex db IIC T6...T5 Gb X Ex tb IIIC T80°C...T100°C Gb X	1Ex db IIC T6...T5 Gb X Ex tb IIIC T80°C...T100°C Gb X		
Ingress protection rating	IP67/ IP68	IP67/ IP68	IP67/ IP68	IP67/ IP68
Operating temperature range, °C	-60...70	-60...70	-60...70	-60...70
Supply voltage, V	24 VDC / 230 VAC	24 VDC / 230 VAC	24 VDC / 230 VAC	24 VDC / 230 VAC
Maximum current consumption, mA	12 VDC - 320 24 VDC - 220 230 VAC - 40	12 VDC - 650 24 VDC - 320 230 VAC - 70	12 VDC - 320 24 VDC - 220 230 VAC - 40	12 VDC - 650 24 VDC - 320 230 VAC - 70
Power consumption, max., W at: 24 VDC / 230 VAC	24 VDC - 5,1 230 VAC - 9,2	24 VDC - 10,0 230 VAC - 15,5	24 VDC - 5,1 230 VAC - 9,2	24 VDC - 10,0 230 VAC - 15,5
Light source	LED lamp	Pulse photoilluminating lamp (strobe light)	LED lamp	Pulse photoilluminating lamp (strobe light)
Available glow modes	10 operation modes (fitted with DIP-switch): Constant glow/ Flashing/ Flare	Strobe light (flare pulse energy: 5 J)	10 operation modes (fitted with DIP-switch): Constant glow/ Flashing/ Flare	Strobe light (flare pulse energy: 5 J)
The light signal is clearly distinguishable at the 360-deg visibility, at a distance of 15 meters and at the minimum external illuminance level, lx	10 000	10 000	10 000	10 000
Available glow colors:				
Brightness of the alarm light signal, min., cd	86	153	86	153
Maximum duration of continuous operation of the annunciator in light signal generation mode, hours	3,0	3,0	3,0	3,0
Possibility of connection to addressable loop	Yes (by means of setting the address marks)	Yes (by means of setting the address marks)	Yes (by means of setting the address marks)	Yes (by means of setting the address marks)
Max. overall dimensions (without cable glands and bracket), mm	113*165*175	113*165*175	113*165*175	113*165*175
Enclosure material	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ
Number of cable glands in the annunciator body	2	2	2	2
Max. cable entry diameter, mm	6...12 (into the equipment enclosure) up to 22 (along the external insulation)			
Installation of the annunciator at site	Bracket (included in the supply package) long bracket (optional)			
Available packages	Input devices, long bracket (optional)	Input devices, long bracket (optional)	Input devices, long bracket (optional)	Input devices, long bracket (optional)
Max. weight, kg	1,5	1,5	1,5	1,5
Lifetime, min., years	10	10	10	10
Warranty period, years	5	5	5	5



# ANNUNCIATORS



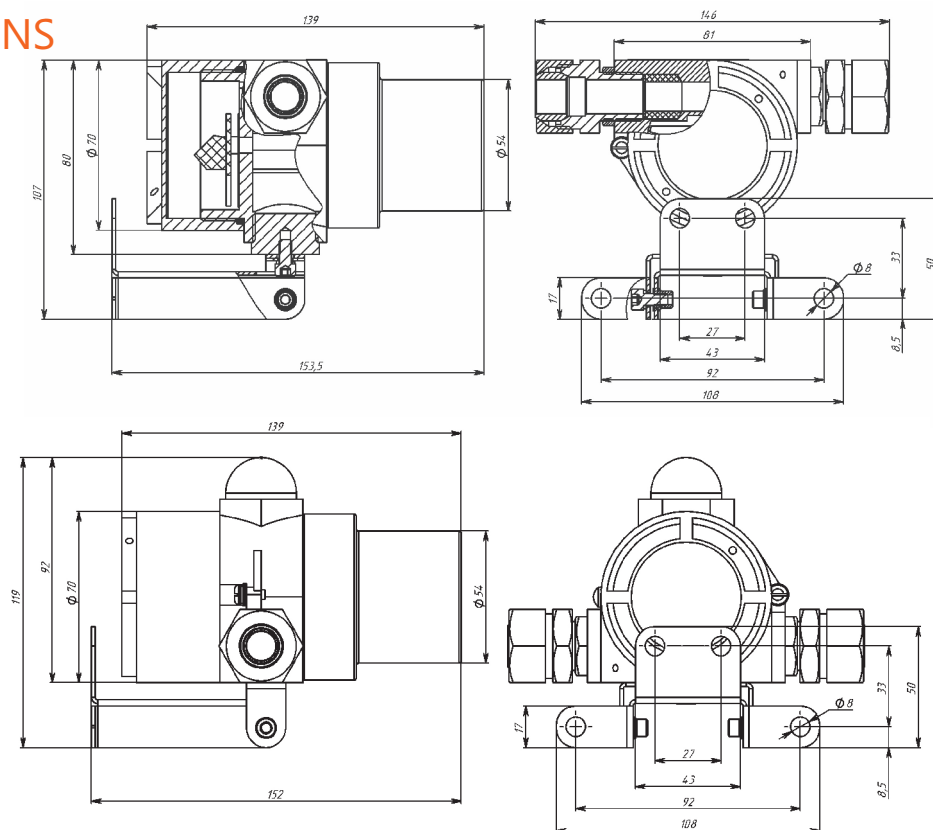
## VS-07e-Ex-Z (ZI)

### Acoustic Fire Annunciators

Acoustic fire annunciator VS-07e-Ex-Z (ZI) is designed for generation of acoustic and light signals in fire and security alarm systems, in joint operation with any fire alarm control units. The annunciator can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations. It is used at chemical, oil and gas production, oil and gas processing industry enterprises and in explosive areas of other production facilities.



## DIMENSIONS

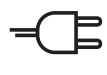


1Ex db IIC  
T6 Gb X

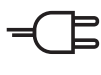
IP66



-60°+70°C



12-24 V



230 V



100 dB



3  
hours



5 years

## MODIFICATIONS:

**VS-07e-Ex-Z**  
Explosion-proof acoustic fire annunciator (siren)

The annunciator is designed for generation in explosive areas of alarm acoustic signals in fire and security alarm systems, in joint operation with any fire alarm control units. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-Ex-ZI**  
Explosion-proof acoustic fire annunciator with indication

The annunciator is designed for generation in explosive areas of alarm acoustic, light or combined signals in fire and security alarm systems, in joint operation with any fire alarm control units. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-a-Ex-Z**  
Explosion-proof acoustic addressable fire annunciator (siren)

The annunciator is designed for generation in explosive areas of alarm acoustic signals in fire and security alarm systems, for application only as part of addressable loop of instruments supporting the Dozor-07a protocol. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-a-Ex-ZI**  
Explosion-proof acoustic addressable fire annunciator with indication

The annunciator is designed for generation in explosive areas of alarm acoustic, light or combined signals in fire and security alarm systems, for application only as part of addressable loop of instruments supporting the Dozor-07a protocol. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-O-Z**  
Fire annunciator in general-purpose industrial version (siren)

The annunciator in general-purpose industrial version is designed for generation of alarm acoustic signals in fire and security alarm systems, in joint operation with any fire alarm control units. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-O-ZI**  
Fire annunciator in general-purpose industrial version (siren)

The annunciator in general-purpose industrial version is designed for generation of alarm acoustic, light or combined signals in fire and security alarm systems, in joint operation with any fire alarm control units. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

**VS-07e-a-O-Z**  
Addressable fire annunciator in general-purpose industrial version (siren)

The annunciator in general-purpose industrial version is designed for generation of alarm acoustic signals in fire and security alarm systems, for application only as part of addressable loop of instruments supporting the Dozor-07a protocol. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

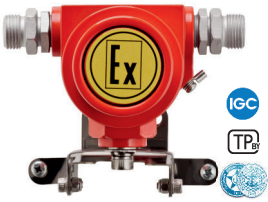
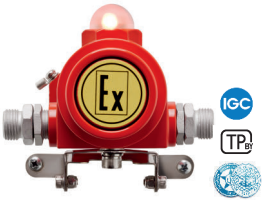
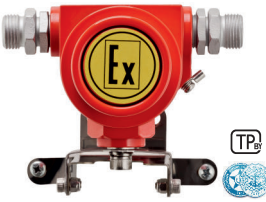

**VS-07e-a-O-ZI**  
Addressable fire annunciator in general-purpose industrial version with indication

The annunciator in general-purpose industrial version is designed for generation of alarm acoustic, light or combined signals in fire and security alarm systems, for application only as part of addressable loop of instruments supporting the Dozor-07a protocol. It can be used for indication of equipment operation modes and for alerting the personnel in case of emergencies or other situations.

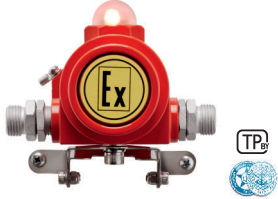



# ANNUNCIATORS

## TECHNICAL DATA:

Modification	VS-07e-Ex-Z Explosion-proof acoustic fire annunciator (siren)	VS-07e-Ex-ZI Explosion-proof acoustic fire annunciator with indication	VS-07e-a-Ex-Z Explosion-proof acoustic addressable fire annunciator (siren)
			
Enclosure explosion proofness marking	1Ex db IIC T6 Gb X Ex tb IIIC T80°C Db X	1Ex db IIC T6 Gb X Ex tb IIIC T80°C Db X	1Ex db IIC T6 Gb X Ex tb IIIC T80°C Db X
Ingress protection rating	IP66	IP66	IP66
Operating temperature range, °C	-60...70	-60...70	-60...70
Supply voltage, V	24 VDC / 230 VAC	24 VDC / 230 VAC	From addressable loop - 15...39 (remains operational at 8...28) From external power supply source - 24
Maximum current consumption, mA	12 VDC - 35 24 VDC - 70 230 VAC - 10	12 VDC - 90 24 VDC - 120 230 VAC - 15	12 VDC - 35 24 VDC - 70
Level of acoustic pressure, min., dB	100	100	100
Acoustic signal type	Siren	Siren	Siren
Available acoustic modes	Tone 1 / Tone 2	Tone 1 / Tone 2	Tone 1 / Tone 2
Frequency range of generated acoustic signals, kHz	1,0...4,5	1,0...4,5	1,0...4,5
Light source		LED lamp	
Light function flashing frequency, Hz		0,5...2,0	
Available glow modes		Flashing	
Available glow colors: Standby mode / Emergency mode			
The light signal is clearly distinguishable at the 360-deg visibility, at a distance of 15 meters and at the minimum external illuminance level, lx		10 000	
Maximum duration of continuous operation of the annunciator in acoustic signal generation mode, hours	3,0	3,0	3,0
Possibility of connection to addressable loop	Yes (by means of setting the address marks)	Yes (by means of setting the address marks)	Yes (via the Dozor-07a protocol) Maximum number of addressable devices to be connected: 255
Supported protocol			Dozor-07a
Max. overall dimensions (without cable glands and bracket), mm	85*85*140	95*85*135	85*85*140
Enclosure material	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ
Number of cable glands in the annunciator body	2	2	2
Max. cable entry diameter, mm	6...12 (into the equipment enclosure) up to 22 (along the external insulation)		
Annunciator installation mode	Bracket (included in the supply package), long bracket (optional)		
Available packages	Input devices, long bracket (optional)	Input devices, long bracket (optional)	Input devices, long bracket (optional)
Max. weight, kg	1,5	1,5	1,5
Lifetime, min., years	10	10	10
Warranty period, years	5	5	5

## TECHNICAL DATA:

VS-07e-a-Ex-ZI Explosion-proof acoustic addressable fire annunciator with indication	VS-07e-O-Z Fire annunciator in general-purpose industrial version (siren)	VS-07e-O-ZI Fire annunciator in general-purpose industrial version with indication
		
1Ex db IIC T6 Gb X Ex tb IIIC T80°C Db X		
IP66	IP66	IP66
-60...70	-60...70	-60...70
From addressable loop - 15...39 (remains operational at 8...28) From external power supply source - 24 VDC	24 VDC / 230 VAC	24 VDC / 230 VAC
12 VDC - 90 24 VDC - 120	12 VDC - 35 24 VDC - 70 230 VAC - 10	12 VDC - 90 24 VDC - 120 230 VAC - 15
100	100	100
Siren	Siren	Siren
Tone 1 / Tone 2	Tone 1 / Tone 2	Tone 1 / Tone 2
1,0...4,5	1,0...4,5	1,0...4,5
LED lamp		LED lamp
0,5...2,0		0,5...2,0
Flashing		Flashing
		
10 000		10 000
3,0	3,0	3,0
Yes (via the Dozor-07a protocol) Maximum number of addressable devices to be connected: 255	Yes (by means of setting the address marks)	Yes (by means of setting the address marks)
Dozor-07a		
95*85*135	85*85*140	95*85*135
Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ
2	2	2
6...12 (into the equipment enclosure) up to 22 (along the external insulation)		
Bracket (included in the supply package), long bracket (optional)		
Input devices, long bracket (optional)	Input devices, long bracket (optional)	Input devices, long bracket (optional)
1,5	1,5	1,5
10	10	10
5	5	5



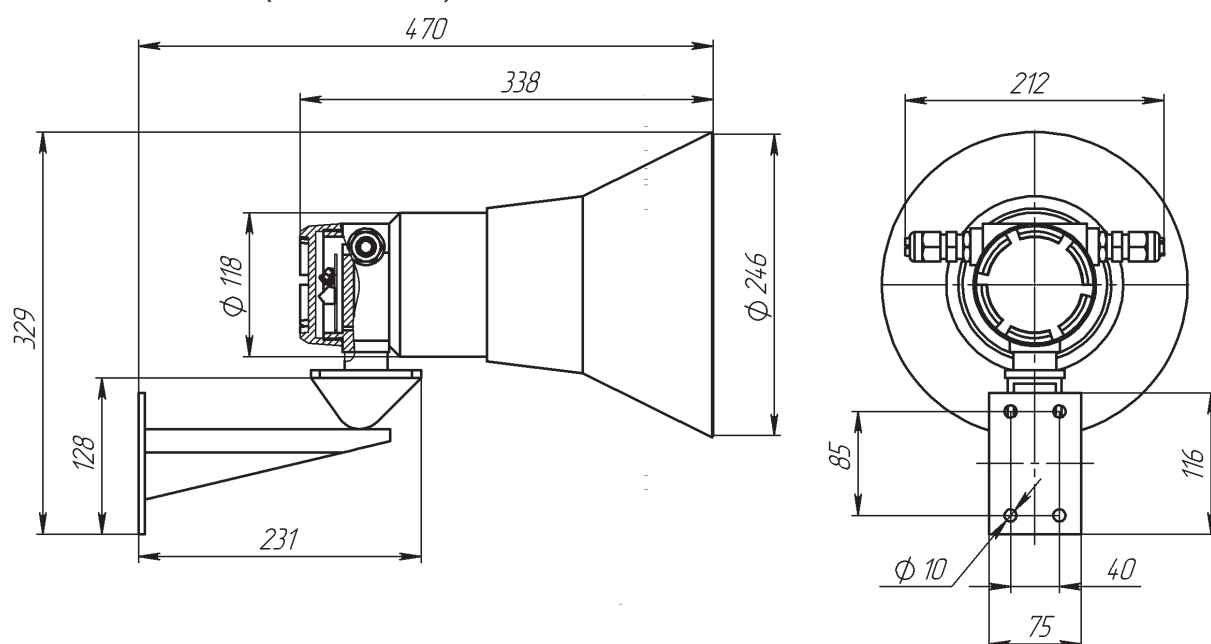
## GRV-07e

### Explosion-Proof Horn Loudspeakers

Explosion-proof horn loudspeakers GRV-07e are designed for use as a sound source in fire and security alarm systems, industrial and technological loud-speaking communication and other kinds of annunciation and acoustic warning operating jointly with alarm control units and amplifiers. In fire alarm systems, loudspeakers are used as explosion-proof voice alarm devices providing broadcasting of fire alert and evacuations instructions. They are used at chemical, oil and gas production, oil and gas processing industry enterprises and in explosion hazardous areas of other production facilities.



### DIMENSIONS (GRV-07E-20)



1Ex d IIC  
T6 X








IP66



Aluminum



## TECHNICAL DATA:

Modification	GRV-07e-20 Explosion-proof horn loudspeaker 20 W	GRV-07e-30 Explosion-proof horn loudspeaker 30 W	GRV-07e-30-PM Explosion-proof horn loudspeaker 30 W with power selection	GRV-07e-50 Explosion-proof horn loudspeaker 50 W
	 	 	 	 
Enclosure explosion proofness marking	1Ex d IIC T6 X	1Ex d IIC T6 X	1Ex d IIC T6 X	1Ex d IIC T6 X
Ingress protection rating	IP66	IP66	IP66	IP66
Operating temperature range, °C	-60...55	-60...55	-60...55	-60...55
Rated capacity P <sub>MAX</sub> , W	20	30	30	50
Rated voltage, V	100	100	100	100
Switch mode connection: - impedance, Ohm - power, W	0,5/1 20/10	0,33/0,66 30/15	0,33/0,4/0,8/1,67/2,5/5/10 30/25/12,5/6/4/2/1	0,2/0,4 50/25
Low resistant connection: - impedance, Ohm - power, W	8 20	8 30		8 50
Effective operating frequency band, Hz	380-6500	380-6500	380-6500	380-6500
Maximum sound pressure level (P <sub>max</sub> , 1 m) min., dB	119	122	122	126
Maximum duration of continuous operation in acoustic (voice) signal generation mode, hours	1,0	1,0	1,0	1,0
Max. overall dimensions (without bracket), mm	Ø250*330	Ø280*380	Ø280*380	Ø320*400
Enclosure material	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ	Aluminum alloy AK 12 ПЧ
Number of cable glands in the annunciator body	2	2	2	2
Max. cable entry diameter, mm	6...12 (into the equipment enclosure) up to 22 (along the external insulation)			
Installation of the annunciator at site	Bracket (included in the supply package) fastening adapter for post/angular mounting (optional)			
Available packages	Input devices, fastening adapter for post/angular mounting (optional)	Input devices, fastening adapter for post/angular mounting (optional)	Input devices, fastening adapter for post/angular mounting (optional)	Input devices, fastening adapter for post/angular mounting (optional)
Max. weight, kg	4,5	4,9	4,9	5,3
Lifetime, min., years	10	10	10	10
Warranty period, years	5	5	5	5

