

Sounders 105 / 110 dB(A)

DS 5-SIL / DS 10-SIL



- integrated safety tough demands under industrial conditions
- to signal dangerous situations in safety-relevant application such as process and plant safety, e.g.
 - leaks / gas warning
 - high-pressure / overfilling
 - and machine safety, e.g. as
 - start-up warning
 - excess rotation speed warning
 - machine stop delay warning
- by means of integrated self-monitoring of the devices the normative required, regular inspection of warning devices is ensured
- the warning devices can be implemented in Safety Instrumented Systems (SIS) up to **SIL 2/PLd**

We would be more than happy to provide all safety-technical key data.

DS 5-SIL



DS 10-SIL



max. covering distance

max. covering distance

Protection system

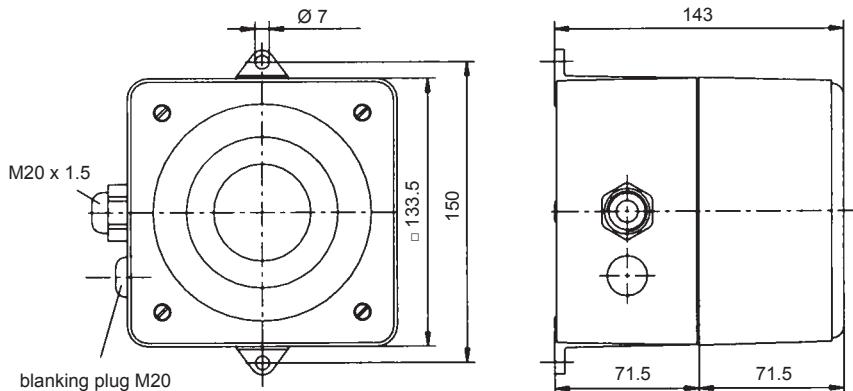
Operating temperature

Acoustic penetration

Electrical data		DS 5-SIL			DS 10-SIL		
Rated voltage	230 V AC	115 V AC	24 V DC		230 V AC	115 V AC	24 V DC
Rated frequency	50 / 60 Hz	50 / 60 Hz			50 / 60 Hz	50 / 60 Hz	
Operating range	195 – 253 V	95 – 127 V	19 – 29 V		195 – 253 V	95 – 127 V	19 – 29 V
Nominal current consumption	0.03 A	0.06 A	0.28 A		0.06 A	0.12 A	0.42 A
Diagnostics channel	current consumption switching power	15 mA 230 V / 80 mA	15 mA 20 mA		15 mA 230 V / 80 mA	15 mA 20 mA	

Mechanical data		DS 5-SIL	DS 10-SIL
Sound pressure level		105 dB (A)	110 dB (A)
Alarm tones		32 (see tone table page 141)	
Operating temperature		- 25 °C ... + 55 °C	
Storage temperature		- 40 °C ... + 70 °C	
Relative humidity		90%	
Protection system according to EN 60529		IP 66, IP 67	
Duty cycle		100%	
Material		die-cast aluminium GD-Al Si12 Cu	
Surface coating		epoxy resin paint RAL 3000, flame red	
Cable bushing		2 x M20 (1 x chrome-plated brass cable fitting, 1 x chrome-plated brass blanking plug)	
Clamping range of the cable fitting		8 – 12 mm	
Connecting terminals		max. 2.5 mm ²	
Weight	AC	2.15 kg	
	DC	1.95 kg	

Dimensions



Connection diagram

X1 Sounder channel

1	PE
2	PE
3	L/+ Operating voltage
4	L/+ Operating voltage
5	N/- Operating voltage
6	N/- Operating voltage

X2 optional external tone selection (option -TAS or -TAV)

1	L/+ Stage S2
2	L/+ Stage S2
3	L/+ Stage S3
4	L/+ Stage S3

X1 Monitoring channel

1	L/+ Operating voltage
2	L/+ Operating voltage
3	N/- Operating voltage
4	N/- Operating voltage
5	Alarm relay (MOS-Relay 230V~, 80mA, 35Ω,
6	Alarm relay conductive, if function
7	Alarm relay channel is acoustically
8	Alarm relay active)

Ordering details

Article numbers		DS 5-SIL			DS 10-SIL		
Version	Rated voltage	230 V AC	115 V AC	24 V DC	230 V AC	115 V AC	24 V DC
Standard		231 06 10 0 601	231 06 15 0 601	231 06 80 0 601	231 11 10 0 601	231 11 15 0 601	231 11 80 0 601
TAS (external tone selection via closed function of the control voltage)		231 06 10 0 603	231 06 15 0 603	231 06 80 0 603	231 11 10 0 603	231 11 15 0 603	231 11 80 0 603

Article numbers for other voltages and versions on request

Options / Accessories



External tone selection for controlling several tones over great distances



GOST

Conformity to standards

The sounders fulfill the requirements to the functional safety according to:

- EN 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems
EN 61511 Functional safety - Safety instrumented systems for the process industry sector

The devices can be used in safety related control systems in accordance with the following standards:

- EN ISO 13849-1 Safety of machinery - Safety related parts of control systems – part 1
EN 62061 Safety of machinery - Functional safety of electrical/electronic/programmable electronic safety-related systems

The devices conform to the following standards:

- EN 61310-1 Safety of machinery - Indication, marking and actuation - part 1: Requirements for visual, acoustic and tactile signals
EN ISO 7731 Ergonomic - alarms for public areas and workplaces – acoustic alarms
EN 981 Safety of machinery - System of acoustic and visual alarm signals and information signals
DIN 33404-1 Alarms for workplaces, uniform emergency signal
ISO 8201 Acoustics - Audible emergency evacuation signal

Maahantuonti ja myynti: Autrosafe Oy, puh. (09) 270 90 120, www.autrosafe.fi