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.











protection system

temperature penetration

PRODUCT		DS 5-SIL		DS 10-SIL			
DATA							
Operating range		95-253 V	19-29 V	95-253 V V	19-29 V		
		AC 50 60 Hz	DC	AC 50 60 Hz	DC		
Nominal current consumption		40 mA @ 230 V	280 mA	60 mA @ 230 V	420 mA		
Diagnostics channel	current consumption	30 mA @ 230 V	20 mA	30 mA @ 230 V	20 mA		
	switching power	230 V / 80 mA					
Sound pressure level		105 dB(A)		110 dB(A)			
Alarm tones		32 / 4 tones are externally selectable					
Operating temperature		−25 °C +55 °C					
Storage temperature		−40 °C +70 °C					
Relative humidity		90 %					
Protection system according to EN 6052		IP 66 I IP 67					
Duty cycle		100 %					
Material		die-cast aluminium GD-Al Si12 Cu					
Surface coating		epoxy resin paint RAL 3000, flame red					
Cable bushing		2x M20 (1x chrome-plated brass cable fitting, 1x chrome-plated brass blanking plug)					
Clamping range of the cable fitting		8–12 mm					
Connecting terminals		max. 2.5 mm ²					
Weight		2.15 kg	1.95 kg	2.15 kg	1.95 kg		

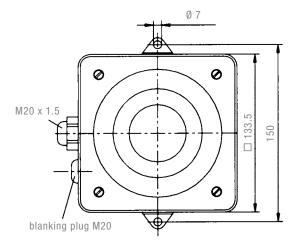
OPTIONS/ACCESSORIES

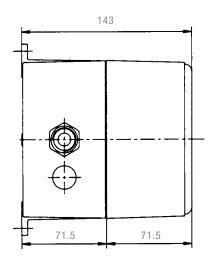


TAS: External tone selection for controlling several tones over great distances.



DIMENSIONS





CONNECTION DIAGRAM

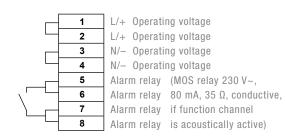
Sounder channel

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

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



Monitoring channel



ARTICLE NO.		DS 5-SIL		DS 10-SIL	
VERSION	RATED VOLTAGE	95-253 V AC	24 V DC	95-253 V AC	24 V DC
Standard		23106100601	23106800601	23111100601	23111800601
TAS		23106100603	23106800603	23111100603	23111800603

Article numbers for other voltages and versions on request.

CONFORMITY TO STANDARDS

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

Functional safety of electrical/electronic/programmable electronic safety-related systems EN 61508 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
Safety of machinery – Functional safety of electrical/electronic/programmable electronic safety-related systems EN 62061

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; acoustic alarms; unified emergency signal

ISO 8201 Acoustics; Audible emergency evacuation signal