SOUNDERS 108/114 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

DD

operating temperatur

warranty

em	temperature	penetration		
RODUC	Т		DS 5-SIL	
ГА				

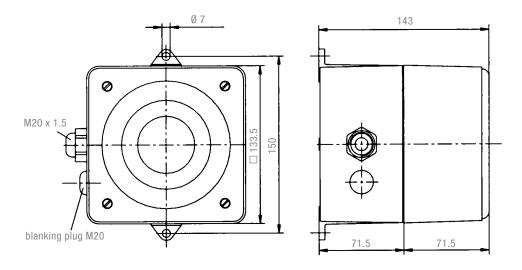
PRUDUCI		DS 5	-SIL	DS 10-SIL		
DATA						
Operating range		95-253 V	19-29 V	95-253 V	19-29 V	
		AC 50 60 Hz	DC	AC 50 60 Hz	DC	
Nominal current consumption		40 mA @ 230 V	280 mA	60 mA @ 230 V	420 mA	
Diagnostics channel	current consumption	30 mA @ 230 V	20 mA	30 mA @ 230 V	20 mA	
	switching power		230 V /	80 mA	0 mA	
Sound pressure level		108 dB(A)		114 dB(A)		
Sound pressure level @DIN-tone		107 dB(A)		112 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 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

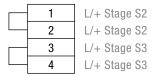


CONNECTION DIAGRAM

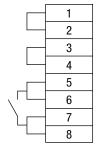
Sounder channel

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

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



Monitoring channel



L/+ Operating voltage L/+ Operating voltage

N/- Operating voltage

N/- Operating voltage

Alarm relay (MOS relay 230 V~, Alarm relay 80 mA, 35 Ω , conductive,

Alarm relay if function channel

Alarm relay is acoustically active)

ARTICLE NO.	DS 5-SIL		DS 10-SIL	
VERSION	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:

EN 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems 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 Safety of machinery - System of acoustic and visual alarm signals and information signals

EN 981 DIN 33404-1 ISO 8201 Alarms for workplaces; acoustic alarms; unified emergency signal

Acoustics; Audible emergency evacuation signal