



E2S

E2S IS-mA1-R mini sounder ATEX/IECEX/FM, IP65

Product code 42072 · Fire alarm systems > Field devices > Alarm devices

Compact, intrinsically safe (Ex ia) sounder for zone 0 hazardous areas. Sound level 100 dB(A), 49 tones and IP65; also approved to EN 54-3.

- > 100 dB(A) / 1 m, audible range 40 m (1 kHz)
- > ATEX, IECEX and FM: Ex ia IIC T4 Ga, zone 0
- > EN 54-3 approved fire alarm sounder (0786-CPD-20338, tones 2, 3, 9, 15, 16 and 17)
- > 49 tones, 3 alarm stages, volume control
- > Certified end-of-line resistor
- > IP65, weighs only 0.36 kg



Product description

E2S IS-mA1 is a compact, intrinsically safe (Ex ia) sounder certified to ATEX, IECEX and EAC Ex for zone 0 applications and FM-approved for Class I, Division 1 and Class I, Zone 0 applications. It is suitable for fire alarm systems, security systems and process control. According to the declaration of performance, the sounder meets EN 54-3, the standard for fire alarm sounders (EC type-examination certificate 0786-CPD-20338, VdS). This model is red (RAL 3000).

Operation

The nominal sound output is 100 dB(A) at 1 metre, with an audible range of approximately 40 m (1 kHz). There are 49 selectable tones (UKOOA/PFEER compatible), and each can be switched externally to a second or third alarm stage. The volume is adjustable in the range 90–100 dB(A). The tones of multiple sounders synchronise automatically, and the input is protected against overload and reverse polarity. The end-of-line resistor is certified.

Installation and power supply

The sounder is powered via a certified Zener barrier or galvanic isolator (16–28 V DC) whose output parameters do not exceed U_0 28 V, I_0 93 mA and P_0 660 mW. Typical current consumption is 25 mA (24 V supply, 28 V / 300 Ω barrier). The enclosure has two M20 cable entry knockouts, the terminals accept 0.5–2.5 mm² conductors, and the fixings are stainless steel. A separate IS-mA1M version is available for mining environments (Group I).

Technical data

Product code	42072
Manufacturer	E2S
Product group	Fire alarm systems > Field devices > Alarm devices
Colour	Red (RAL 3000)

Weight	0.36 kg
IP rating	IP65
ATEX classification	II 1G Ex ia IIC T4 Ga ($-40\text{ °C} \leq T_a \leq +60\text{ °C}$)
ATEX certificate	Sira 05ATEX2084X
IECEx certificate	IECEx SIR 06.0045X
FM approval	IS Class I, Division 1, Groups A, B, C, D; Class I, Zone 0, AEx ia IIC T4
EN 54 approval	EN 54-3, type B (tones 2, 3, 9, 15, 16 and 17; 18–28 V DC)
CPR	0786-CPD-20338
Sound output	100 dB(A) / 1 m ± 3 dB (tone 2), adjustable 90–100 dB(A)
Audible range	40 m (1 kHz)
Tones	49 (UKOOA/PFEER), 3 alarm stages
Operating voltage	16–28 V DC via a Zener barrier or galvanic isolator
Current consumption (alarm)	25 mA typical (24 V, barrier 28 V / 300 Ω)
Ex supply parameters	$U_o \leq 28\text{ V}$, $I_o \leq 93\text{ mA}$, $P_o \leq 660\text{ mW}$
Material	Flame-retardant ABS (UL94 V0 & 5VA)
Operating temperature	$-40\text{...}+60\text{ °C}$
Humidity	90% RH ($+20\text{ °C}$)
Connection	Terminals 0.5–2.5 mm ² , 2 × M20 entry knockouts
MTBF	273.1 years (MIL 217)

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Certificate: EU-type examination certificate (ATEX), no. Sira 05ATEX2084X, issue 9

Certificate: Declaration of performance (DoP), no. 0786-CPD-20338, issue A

Certificate: EU declaration of conformity, no. DC-011, issue J

Installation guide: IS-mA1-R Minialarm

Technical datasheet: E2S IS-mA1-R Minialarm ATEX/IECEx/FM, IP65

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/is-ma1-r-minialarm-atex-iecex-fm-ip-65/