



ANNOVEX / MONIMET

Audio-visual alarm device Type AVS 4.1

The intrinsically safe audio-visual alarm device AVS 4.1 has been developed to conform with the ATEX directive 2014/34/EU. It fulfils the standards EN 60079-0, EN 60079-11, EN 50303 and EN 61000.

The device has one potential free control input each for Alarm 1 and Alarm 2: Alarm 1 switches only the optical generator with a signal frequency of 0.5 Hz.

Alarm 2 switches the optical and acoustic generator with a signal frequency of 1 Hz.

Alarm 2 has a priority over alarm 1.

The potential free inputs (optocoupler inputs) operate either by quiescent or by operating current.

The radiation of the alarm signals occurs in all directions.

The alarms can be switched off manually till the next alarm initiation.

A functional test can also be made by means of a second device switch.

The optical signal device is equipped with ten ultrabright LEDs. It pulses with the frequency of the alarm 1 or alarm 2. The brightness of the signal is independent of the operating voltage.

The acoustic signal device consists of an electro-mechanical tone generator which produces a sweeping signal. This signal is switched with the frequency of alarm 1 or 2. The loudness of the signal increases with the operating voltage.

The device consists of the signal generator which is mounted on a terminal box made of anti-static polyester resin. The steel hanger serves as a suspension. For mounting it rigidly threaded holes are provided on the rear of the device.

Technical Data

Zone, Explosion protection rating	I M1 Ex ia I Ma
Supply voltage	9...16 V–
pulsating current consumption	max. 100 mA
effective current consumption	max. 50 mA
Surroundings temperature	–20...+60°C
Humidity	0... 98% rel., non condensing
Dimensions without hanger	B 122 mm, T 90 mm, H 292 mm
Weight	2.5 kg
Switching signal input (quiescent/operating current)	
Alarm 1, potential free	5...24 V
Alarm 2, potential free	5...24 V
Acoustic signal generator	
Signal tone fast sweeping	2400-2850 Hz
Sound intensity	max. 103 dB
Signal frequency Alarm 1	no
Signal frequency Alarm 2	1 Hz
Optical signal generator	
Flashing light	10 red, ultra highbright pulsed LEDs
Expected lifetime	>10000 hours
Signal frequency Alarm 1	0.5 Hz
Signal frequency Alarm 2	1 Hz
Housing	glass fibre reinforced duroplastic Polyester, surface resistance <10 ⁹ Ohm, impact strength >7 Joule
Type of protection	IP 65

Subject to technical updates

22-06