

8A. Changing rooms, shower rooms and toilets for women and men with acoustic detector

50 Hz, non-dimmable or dimmable HF operating devices

Swedish patent nr. 9201493-5, English patent No. 0659329

The premises

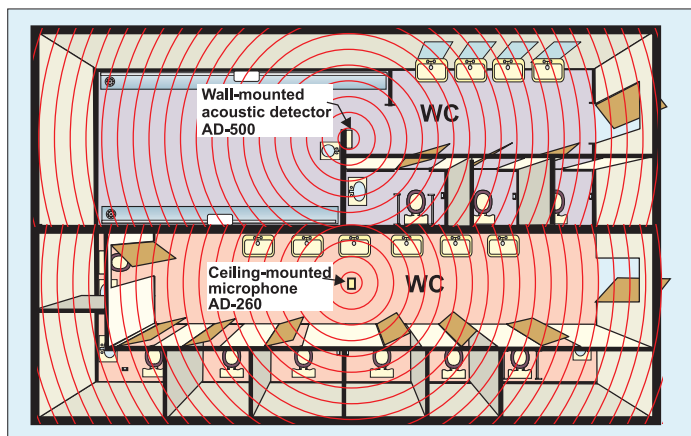
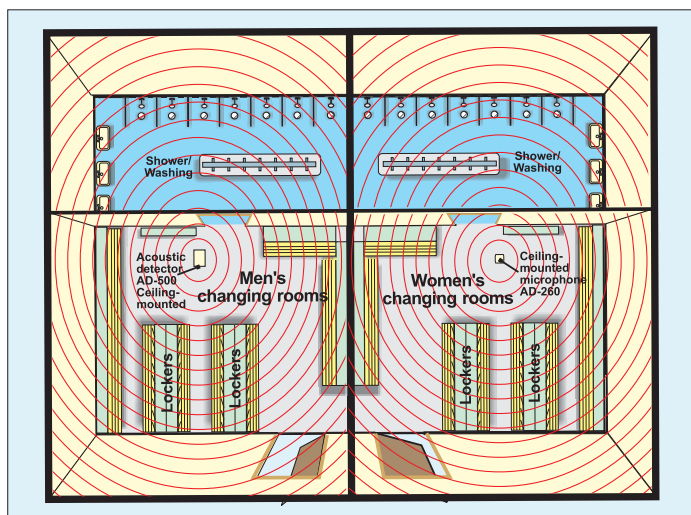
Changing rooms are an excellent example of areas where the acoustic technology is superior. The acoustic detector has an excellent capacity for detection of presence behind clothes and around cupboards that an IR detector would have missed. With a correctly mounted microphone the same detector can detect presence in both changing rooms and the shower section.

An AD-500 acoustic detector with an extra microphone can be used for detection in two separate changing rooms, e.g. men's and women's sections.

Positioning of microphones

Detectors and microphones should be positioned in the middle of the ceiling in the room in question, and in such a way that detection in the showers is also achieved. The sound of sprinkling water in the showers is usually so loud that you do not need a microphone in the shower area (there must not be a door). It usually suffices to position the microphone in the changing room near a passage into the shower area.

NB: With acoustic detection it is a prerequisite that the premises be closed, i.e. that there be doors that are normally closed to all other areas.



Light sources

This application shows an example of fittings with 50 Hz choke operation or non-dimmable HF operating devices.

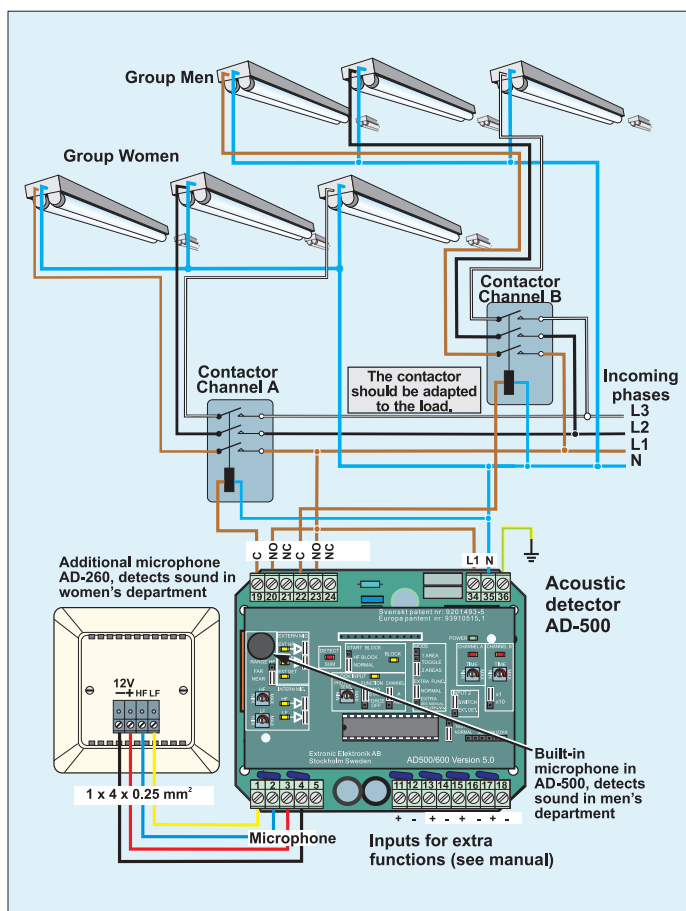
Control system

The AD-500 detector is positioned in one premises, controlling Channel A. In the second premises one or more microphones are positioned that control Channel B. NB: In this application the AD-500 must be used, as the AD-600 cannot be utilised.

An appropriate deactivation delay is at least 5 minutes, and this is set in both Timer A and Timer B.

See AD-500 manual for detector programming.

With **new or renovated buildings**, and if there are a lot of movements in the premises, dimmable fittings and dynamic lighting control can be considered. Please study the separate applications describing dynamic lighting control!



Product	Order No.
Acoustic detector AD-500	13095
Microphone AD-260U	13106
Contactors 2 ea.	20480

Options	Order No.
Microphone AD-260P	13105

Information for current budget

Product	Maximum current consumption (mA)
Microphone AD-260	22