



**FWD 305**

**Features**

- Early warning of smoke and fire
- Optical (photoelectric) smoke chamber
- Fire alarm siren
- Alarm relay output
- Inter connection with other detectors
- Test button
- Micro processor
- 8 seconds delay before the relay activates
- Power supply 12-24 Vdc  
24 Vac and 48 Vdc as option
- Battery back-up as option
- Error alarm output as option

The room smoke detector FWD 305-series is an optical room smoke detector type, optical room smoke detector type is also named as photoelectric room smoke detector type.

**Ordering**

Type no.	Description
<b>FWD 305</b>	Room smoke detector with fire alarm siren and alarm relay output NO/NC, power supply 12-24 Vdc
<b>Options</b>	
<b>FWD 305 24VAC</b>	same as FWD 305 but with power supply 24 Vac
<b>FWD 305 48VDC</b>	same as FWD 305 but with power supply 48 Vdc
<b>FWD 305 B</b>	same as FWD 305 and with battery back-up
<b>FWD 305 L</b>	same as FWD 305 and with error alarm output

**General**

The optical (photoelectric) room smoke detector FWD 305-series is equipped with a microprocessor which means each room smoke detectors has two signal possibilities when fire incident (fire alarm signal and warning alarm signal):  
 Fire alarm signal from the room smoke detector that initially activated the alarm.  
 Warning alarm signal from other room smoke detectors in the system.

**Activating power supply to the room smoke detector**

When activating power supply to the room smoke detector, the siren will respond with a Morse signal (Long, Short, Short, Short) L.S.S.S. and this means the room smoke detector working perfectly.

**Testing the room smoke detector**

By pushing the test button on the room smoke detector, the siren activates the fire warning signal. When test button on room smoke detector is released, the siren gives signal S.S.S. (Short, Short, Short).

**FWD 305 standard type, basic programming.**

**Room smoke detector with fire alarm siren and alarm relay output, power supply 12-24 Vdc.**

**Fire Alarm Siren** Fire Alarm Siren activates with a periodical signal when smoke activates the room smoke detector.

**Relay Alarm Output** Relay alarm output activates directly when the room smoke detector sensing smoke (change over contact SPDT; SPNO and SPNC, 1A at 24 Vdc).

**Delay** Delay, the relay has 8 seconds delay before the relay activates on the room smoke detector.

**Inter connection** Inter connection via one extra wire.  
 Other room smoke detectors in the system are getting activated with +pole when one room smoke detector sensing smoke.

**Options**

**FWD 305 24VAC 24 Vac** Power supply 24 Vac, instead of standard power supply 12-24 Vdc for the room smoke detector.

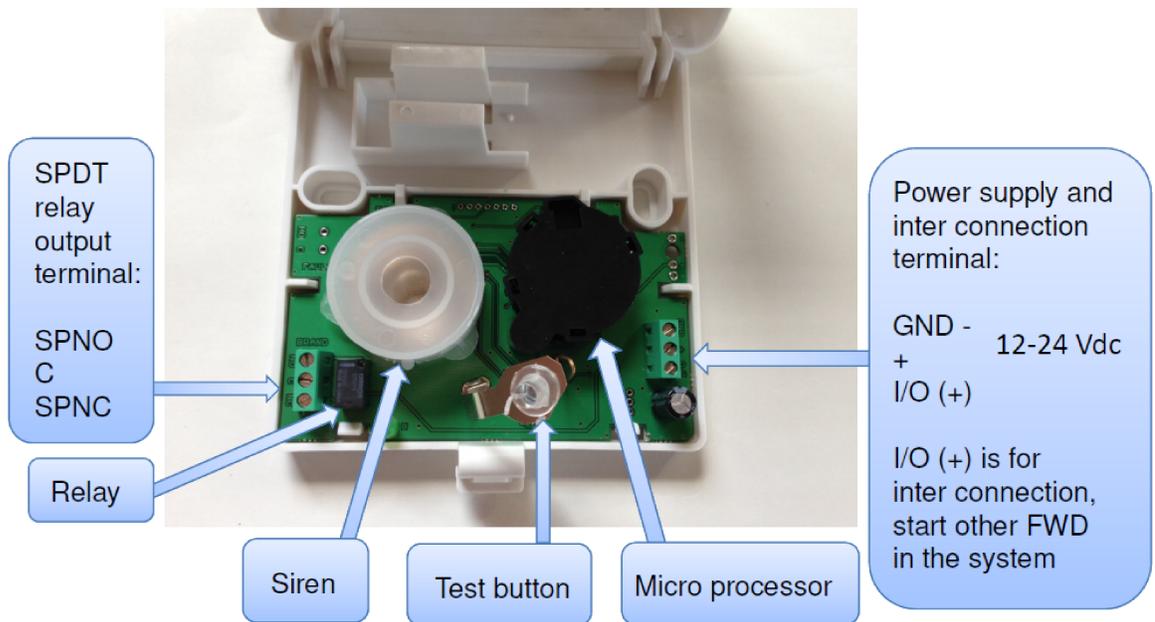
**FWD 305 48VDC 48 Vdc** Power supply 48 Vdc, instead of standard power supply 12-24 Vdc for the room smoke detector.

**FWD 305 B Battery back-up** The room smoke detector is equipped with a battery back-up, unless battery back-up not exists in the charging unit for 12-24 Vdc.

**FWD 305 L Error alarm output** The room smoke detector indicates error alarm for:  
 - Low power supply on battery at battery back-up.  
 - Low pulses from the smoke chamber at normal drift.  
 - Failure calibration of smoke chamber  
 (too strong pulse, too weak pulse or light penetrated into the smoke chamber).

PCB with lectrical connections

PCB for Room Smoke Detector with Fire Alarm Siren and Relay Output FWD 305



We reserve the right to make changes in our products without any notice which may effect the accuracy of the information contained in this leaflet.