

# PHILAE

## Conventional Fire Detection

SB-038-REV-A

PHILAE is a conventional fire detection system with 4 to 28 zones. Its total capacity is 512 detectors or manual call points.

PHILAE consists of a basic panel providing up to 3 PHILAE\_EM extension module connections, each with 8 zones. This provides a maximum capacity of 28 zones.

You can connect up to 32 devices per zone (manual call points, optical smoke, heat, flame detectors in standard version or intrinsically safe).

It is also possible to have up to 3 repeater with log events PHILAE\_RP (e.g. Engine Control Room, Fire Control Room, etc...). Simple, modular, quick and intuitive installation and operation.



### Display

- The status of the zones is indicated by yellow and red LEDs
- Bilingual text: English and French, other languages on request
- Integrated buzzer
- Identification of the zones by customizable labels

### Input

- 1 separate general alarm input, with a sequence of 7 short blasts / 1 long blast on the siren output

### Functions

- Panel configuration using microswitches
- Access code for protected functions
- Zone monitoring (short circuit, open circuit, no detector)
- Automatic switchover from main to emergency power supply with alarm
- Repeater with log events

### Outputs

#### Digital outputs

- **SIREN**, monitored, 24Vdc of 0.5A max
- **FIRE**, dry contact, N.O., 1A
- **FAULT**, dry contact, N.C., 1A
- **FIRE NOT ACKNOWLEDGED 2 MIN**, dry contact, N.O., 1A

#### Communication

- **Output NET1**: VDR according to standard IEC-61162-2, NMEA 0183 (ASCII, 4800 bauds 8/N/1)
- **Output NET2**: Modbus RTU RS485 SLAVE to external equipment, (9600 bauds 8/N/1) Dedicated port if use of repeater

# PHILAE

## Conventional Fire Detection

### Electrical characteristics

#### Power supply switching

- Automatic

#### Main power supply

- 24Vdc (+30%, -25%)

#### Emergency power supply

- 24Vdc (+30%, -25%)

#### Consumption

- PHILAE: 1.25A max. at 24Vdc
- PHILAE\_EM: 1.5A max. at 24Vdc
- 5.75 A max. for the complete system at 24Vdc
- PHILAE\_RP: 0.25A

#### Serial communications

- Shielded twisted pair cable with a minimum cross-section of 0.75mm
- Cable length max. per zone: 200m
- 120 mA max. per zone
- Protection of each zone by resettable fuse

### Mechanical characteristics

#### Mounting

- With screws from the front of the console

#### Dimensions (LxH)

- PHILAE: 179mm x 177.5mm
- PHILAE\_EM: 179mm x 177.5mm
- PHILAE\_RP: 147mm x 107mm
- Housing: 138mm x 130mm

#### Weight

- PHILAE: 0.6 kg
- PHILAE\_EM: 0.6 kg
- PHILAE\_RP: 0.4 kg

### Environmental conditions

#### Temperature limits

- -15°C to 70°C (storage)
- +5°C to 55°C (functioning)

#### Humidity

- 95% RH - non condensable at 55°C

#### Protection rating

- IP32 (front panel)

### References & Options

#### Temperature limits

- PHILAE: Fire detection panel 4 zones
- PHILAE\_EM: 8 zone extension module
- PHILAE\_RP: Repeater on 4" screen

### Approvals



► M.E.D.

### Connection principle

