



PHS102DS
Conventional Smoke Detector
for 2-wire systems

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PHS102DS conventional (non-addressable) photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.

The PHS102DS range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical smoke detector for life safety and property protection applications.



General Specifications

- Advanced algorithms provide advanced detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- Magnet-initiated alarm test function
- Base options include
 - Low profile 100 mm diameter base
 - High profile 100 mm base for mounting on hard surfaces with conduit cable entry
 - Low profile 150 mm diameter base
 - Sounder base
 - Recessed mounting for base mounting
- Connects to zone monitor for use with addressable control and indicating equipment

Technical Specifications

Operating voltage:	DC (12 ~ 28) V
Start-up current:	≤ 120 μA
Start-up time:	≤ 60 s
Standby current:	≤ 90 μA
Alarm current (max):	70 mA
Maximum permitted current:	80 mA
Sampling time:	3 s ~ 5 s
Reset voltage:	≤ 1 V
Reset time:	≤ 1 s
Alarm response threshold (smoke):	0.10 dB/m ~ 0.14 dB/m
Environmental:	Operating Temperature: -10 °C ~ +50 °C Operating Humidity: 0 % ~ 95 % RH, non-condensing
Alarm indicator:	Two continuous emitting red LEDs
Dimensions (excluding contacts):	Ø 100 mm x 48 mm
Ingress protection rating:	IP-42
Ceiling spacing for heat sensor:	≤ 15 m